

GenCore version 5.1.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:33:45 ; Search time 742.26 Seconds  
(without alignments)  
3947.771 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGERSDRT.....LFAKGEVQWALSDHQHGRN 495

Scoring table: OLIGO \*

Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Word size: 1

Total number of hits satisfying chosen parameters: 8776198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters: -DEV=xlh

-MODEL=frame+pn.model -DEV=xlh  
-O=/cgn2\_1/USPTO\_spool/US09776865/runat\_08072005\_175611\_23683/app\_query.fasta\_1.1358  
-DB=N Geneseq 16Dec04 -SUFFIX=oligo.rng -MINMATCH=0.1 -LOOPEL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=oligo -TRANS=human40.cdi  
-LIST=1000 -DOALIGN=200 -THR SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFWT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865 @CGN\_1\_1\_1004/runat\_08072005\_175611\_23683 -NCPU=6 -ICPU=3  
-NO MMAP -LARGESQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : N Geneseq 16Dec04:\*

1: Geneseqn1980s:\*

2: Geneseqn1990s:\*

3: Geneseqn2000s:\*

4: Geneseqn2001as:\*

5: Geneseqn2001bs:\*

6: Geneseqn2002as:\*

7: Geneseqn2002bs:\*

8: Geneseqn2003as:\*

9: Geneseqn2003bs:\*

10: Geneseqn2003cs:\*

11: Geneseqn2003ds:\*

12: Geneseqn2004as:\*

13: Geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	495	100.0	2844	3	Aaz50876 Sheep GBS
2	495	100.0	2844	4	Aad10326 Sheep gro
3	61	12.3	375	5	Aah52158 Human AFP
4	61	12.3	1485	3	Aaz50880 Human/She
5	61	12.3	1488	4	Aai58115 Human pol

6	61	12.3	1651	6	ABL90384	Abi90384 Human pol
7	61	12.3	1872	6	ABQ54422	Abq54422 Human ova
8	61	12.3	1975	4	Aah99626	Aah99626 Human pro
9	61	12.3	1975	4	Aah99626	Aah99626 Human pro
10	61	12.3	2511	12	ADQ84158	Adq84158 Human tum
11	61	12.3	2512	4	AAF55900	Aaf55900 Human AST
12	61	12.3	2602	3	Aaz50875	Aaz50875 Partial h
13	61	12.3	2626	11	ACN91332	Acn91332 Breast ca
14	61	12.3	2670	4	Aah79234	Aah79234 Human sod
15	61	12.3	2712	4	AK94876	Aak94876 Human ful
16	61	12.3	2712	12	ADL32035	Adl32035 Full leng
17	61	12.3	2930	3	Aaz50879	Aaz50879 Full leng
18	61	12.3	2930	4	AAD10325	Aad10325 Human gro
19	61	12.3	3329	12	ADJ75057	Adj75057 Marker ge
20	61	12.3	3329	13	ADRI4586	Adri4586 Human NP-
21	61	12.3	3329	13	ADP25216	Adp25216 PRO polyp
22	61	12.3	3362	5	ADL45207	Adl45207 Human ova
23	48	9.7	1229	11	ADI31334	Adi31334 Human cDN
24	33	6.7	217	10	ACA56004	Aca56004 Human sig
25	33	6.7	217	12	ADI55800	Adi55800 Human pol
26	32	6.5	853	4	AAK93901	Aak93901 Human cDN
27	32	6.5	853	12	ADL30328	Adl30328 3' end of
28	30	6.1	929	4	AAI59901	Aai59901 Human pol
29	30	6.1	1485	3	AAZ50881	Aaz50881 Human/She
30	29	5.9	199	6	ABL37731	Abi37731 Human col
31	29	5.9	494	5	ADL38939	Adl38939 Human ova
32	29	5.9	498	5	ADI67304	Adi67304 Human ova
33	29	5.9	498	5	ADI73702	Adi73702 Human ova
34	29	5.9	516	11	ACN87943	Acn87943 Breast ca
35	29	5.9	798	5	AAZ566219	Aaz566219 DNA encod
36	29	5.9	838	4	AAK92364	Aak92364 Human cDN
37	29	5.9	838	12	ADL28791	Adl28791 5' end of
38	29	5.9	1066	5	AAZ77186	Aaz77186 DNA encod
39	29	5.9	1066	8	ACD05897	Acd05897 Novel hum
40	18	3.6	264	4	AAI22435	Aai22435 Human bre
41	18	3.6	349	4	AAI13566	Aai13566 Human bre
42	18	3.6	573	6	ABQ97960	Abq97960 Mouse ES
43	18	3.6	756	11	ACN83647	Acn83647 Breast ca
44	12	2.4	375	12	ACH81066	Ach81066 Human gen
45	12	2.4	512	12	ACH67361	Ach67361 Human gen
46	12	2.4	1939	4	ABL03769	Abi03769 Drosophil
47	12	2.4	2269	10	ADL24752	Adl24752 Intestina
48	12	2.4	2281	2	AAV57909	Aav57909 Human hae
49	12	2.4	2281	6	ABN96956	Abn96956 Gene #345
50	12	2.4	2281	10	ADF90827	Adf90827 Human hep
51	12	2.4	4899	4	ABL03768	Abi03768 Drosophil
52	12	2.4	235033	2	AAV57926	Aav57926 Hereditar
53	12	2.4	237326	2	AAV57903	Aav57903 Hereditar
54	11	2.2	2528	8	ABX13555	Abx13555 Murine DN
55	11	2.2	2528	10	ADC15493	Adc15493 Mouse DNP
56	11	2.2	3422	4	AAK52406	Aak52406 Human pol
57	11	2.2	3946	8	ABX13553	Abx13553 Human DNP
58	11	2.2	3946	10	ADC15489	Adc15489 Human DNP
59	11	2.2	3982	8	ABX13554	Abx13554 Rat DNPI
60	11	2.2	3982	9	ACF25330	Acf25330 Rat Na-de
61	11	2.2	3982	10	ADC15491	Adc15491 Rat DNPI
62	10	2.0	875	13	ADP28533	Adp28533 Bacterial
63	10	2.0	1161	12	ADP28533	Adp28533 Human sec
64	10	2.0	1425	13	ADS51130	Ads51130 Bacterial
65	10	2.0	1575	4	ABL26651	Abi26651 Drosophil
66	10	2.0	1641	4	ABL18113	Abi18113 Drosophil
67	10	2.0	1700	10	ADB59088	Adb59088 Toxicity-
68	10	2.0	1700	10	ADB53647	Adb53647 Primary r
69	10	2.0	1700	10	ABT42420	Abt42420 Toxicity
70	10	2.0	1700	12	ADP72853	Adp72853 Renal tox
71	10	2.0	1786	4	ABL07417	Abi07417 Drosophil
72	10	2.0	3810	4	ABL26650	Abi26650 Drosophil
73	10	2.0	4774	4	ABL07416	Abi07416 Drosophil
74	10	2.0	6872	4	ABL18112	Abi18112 Drosophil
75	10	2.0	7125	4	ABL26652	Abi26652 Drosophil
76	9	1.8	33	4	AAH79237	Aah79237 Human Na
77	9	1.8	234	3	AAH87459	Aah87459 Rat hepat
78	9	1.8	360	6	ABQ85648	Abq85648 Arabidops

79	9	1.8	511	6	ABQ47112	Abq47112 Oligonucle	c 152	8	1.6	594	6	ABQ39269	Abq39269 Oligonucle
80	9	1.8	511	6	ABQ47113	Abq47113 Oligonucle	153	8	1.6	594	6	ABQ39268	Abq39268 Oligonucle
81	9	1.8	1188	6	AB213146	Ab213146 Arabidops	154	8	1.6	598	4	AAF44897	Aaf44897 Human bre
82	9	1.8	1478	3	AC34230	Aac34230 Arabidops	155	8	1.6	610	13	ADQ50597	Adq50597 Novel can
83	9	1.8	1701	4	AH23452	Aah23452 Human lim	156	8	1.6	633	6	ABQ47239	Abq47239 Oligonucle
84	9	1.8	1938	4	AS61038	Aas61038 Human can	157	8	1.6	633	6	ABQ47238	Abq47238 Oligonucle
85	9	1.8	1952	10	AHL26653	Abh26653 Human for	158	8	1.6	636	3	AAC07097	Aac07097 Human sec
86	9	1.8	2031	4	ABL26653	Abh26653 Drosophil	159	8	1.6	650	3	AAZ80186	Aaz80186 Human col
87	9	1.8	2174	5	ABK52236	Abk52236 cDNA enco	160	8	1.6	689	3	AAC07100	Aac07100 Human sec
88	9	1.8	2316	10	ADB59023	Adb59023 Toxicity-	161	8	1.6	705	8	ACA33235	Aca33235 Prokaryot
89	9	1.8	3317	4	ABL28771	Abh28771 Drosophil	162	8	1.6	705	11	ABD13245	Abd13245 Pseudomon
90	9	1.8	5397	5	AS66000	Aas66000 cDNA enco	163	8	1.6	706	6	ABQ32971	Abq32971 Oligonucle
91	9	1.8	5634	10	ACD19443	Acd19443 cDNA enco	164	8	1.6	706	6	ABQ32970	Abq32970 Oligonucle
92	9	1.8	7402	4	ABL28770	Abh28770 Drosophil	165	8	1.6	714	12	ACH87521	Ach87521 Human gen
93	9	1.8	7487	5	AS92457	Aas92457 DNA enco	166	8	1.6	798	4	AAI97325	Aai97325 Human neu
94	9	1.8	14800	6	ABL66291	Abh66291 Lung canc	167	8	1.6	801	9	ADA30777	Ada30777 DNA enco
95	9	1.8	14800	12	ADP13447	Adp13447 Renal cel	168	8	1.6	828	6	ABQ31613	Abq31613 Oligonucle
96	9	1.8	14835	6	AS94858	Aas94858 Human DNA	169	8	1.6	828	6	ABQ31612	Abq31612 Oligonucle
97	9	1.8	42379	12	ADQ97660	Adq97660 Mouse can	170	8	1.6	874	6	ABQ33994	Abq33994 Oligonucle
98	9	1.8	228139	11	ACN44002	Actn44002 Human gen	171	8	1.6	874	6	ABQ33994	Abq33994 Oligonucle
99	9	1.8	247544	12	ADQ59419	Adq59419 Human can	172	8	1.6	874	6	ABQ33995	Abq33995 Oligonucle
100	9	1.8	252907	13	ABD33694	Abd33694 Human can	173	8	1.6	874	6	ABQ33995	Abq33995 Oligonucle
101	8	1.6	41	4	AH79239	Aah79239 Human Na	174	8	1.6	876	3	AAC99057	Aac99057 Human pan
102	8	1.6	105	2	AAT20739	Aat20739 Human gen	175	8	1.6	886	6	ABQ41038	Abq41038 Oligonucle
103	8	1.6	117	3	AA70048	Aaa70048 Human ova	176	8	1.6	886	6	ABQ41039	Abq41039 Oligonucle
104	8	1.6	117	6	ABN72942	Abn72942 Ovarian c	177	8	1.6	887	6	AAI67947	Aai67947 Human CCR
105	8	1.6	117	9	ADA08512	Ada08512 Human ova	178	8	1.6	951	13	ADT43990	Adt43990 Bacterial
106	8	1.6	117	10	ADF08855	Adf08855 cDNA enco	179	8	1.6	1057	12	ADJ42222	Adj42222 Plant CDN
107	8	1.6	117	10	ADG46142	Adg46142 Human ova	180	8	1.6	1062	4	AAH52620	Aah52620 S. epider
108	8	1.6	144	6	ABQ90618	Abq90618 M. capsul	181	8	1.6	1080	8	ACA20967	ACA20967 Prokaryot
109	8	1.6	168	13	ADSO4142	Adso4142 Staphyloc	182	8	1.6	1082	2	AZ411967	Aaz411967 Human myo
110	8	1.6	302	10	ACA56377	Acta56377 Human sig	183	8	1.6	1083	11	ABD12929	Abd12929 Pseudomon
111	8	1.6	302	12	ADI56173	Adi56173 Human pol	184	8	1.6	1098	10	ACC61925	Acc61925 Gene sequ
112	8	1.6	307	4	AS233994	Aas233994 Human ova	185	8	1.6	1098	10	ADK63543	Adk63543 Disease t
113	8	1.6	307	5	AH82559	Aah82559 Human ova	186	8	1.6	1098	13	ADS47018	Ads47018 Bacterial
114	8	1.6	321	13	ADR63777	Adr63777 Cotton cd	187	8	1.6	1103	12	ADO02848	Ado02848 Corn orth
115	8	1.6	336	8	ABX45212	Abx45212 Bovine ES	188	8	1.6	1104	9	ADA30713	Ada30713 DNA enco
116	8	1.6	345	5	AAF67089	Aaf67089 Novel hum	189	8	1.6	1188	9	ACC59401	Acc59401 Microbial
117	8	1.6	368	3	AAC07101	Aac07101 Human sec	190	8	1.6	1206	9	ADA31549	Ada31549 DNA enco
118	8	1.6	383	10	ADD33833	Add33833 Mouse mit	191	8	1.6	1263	11	ABD15054	Abd15054 Pseudomon
119	8	1.6	386	6	ABV88859	Abv88859 Human col	192	8	1.6	1263	11	ABD14863	Abd14863 Pseudomon
120	8	1.6	387	6	ABV88917	Abv88917 Human col	193	8	1.6	1270	6	ABN96523	Abn96523 Gene #302
121	8	1.6	390	6	ABK45013	Abk45013 cDNA enco	194	8	1.6	1279	5	ADL45820	Adl45820 Human ova
122	8	1.6	404	5	AAF66458	Aaf66458 Novel hum	195	8	1.6	1367	4	AAI61282	Aai61282 Human pol
123	8	1.6	404	10	ACD97946	Acd97946 Human col	196	8	1.6	1377	11	ABD15072	Abd15072 Pseudomon
124	8	1.6	425	3	AAC07103	Aac07103 Human sec	197	8	1.6	1384	2	AAQ91199	Aaq91199 HMPG 46 k
125	8	1.6	429	8	ABX37053	Abx37053 Bovine ES	198	8	1.6	1388	4	ABL02015	Abh02015 Drosophil
126	8	1.6	429	9	ACH19732	Ach19732 Human edu	199	8	1.6	1419	13	ADT42061	Adt42061 Bacterial
127	8	1.6	438	8	ABX44619	Abx44619 Bovine ES	200	8	1.6	1431	4	AA526516	Aas26516 Human CDN
128	8	1.6	456	3	AAC07104	Aac07104 Human sec	201	8	1.6	1431	8	ABX73857	Abx73857 Human nov
129	8	1.6	487	6	ABK62339	Abk62339 Rat sequ	202	8	1.6	1436	4	AA526093	Aas26093 Human CDN
130	8	1.6	487	10	ADB55558	Adb55558 Toxicity-	203	8	1.6	1436	8	ABX73434	Abx73434 Human nov
131	8	1.6	487	10	ADB50115	Adt40558 Toxicity	204	8	1.6	1440	13	ADT48613	Adt48613 Bacterial
132	8	1.6	487	10	ABT40558	Adt40558 Toxicity	205	8	1.6	1461	3	AA401119	Aac40119 Arabidops
133	8	1.6	487	12	ADP71655	Adp71655 Renal tox	206	8	1.6	1536	11	ABD13048	Abd13048 Pseudomon
134	8	1.6	499	10	ADF61849	Adf61849 Human ald	207	8	1.6	1574	4	ABL17667	Abh17667 Drosophil
135	8	1.6	511	6	ABN94941	Abn94941 Gene #143	208	8	1.6	1623	5	AAH52103	Aah52103 Human AFP
136	8	1.6	513	3	AAC07106	Aac07106 Human sec	209	8	1.6	1685	12	ADR20077	Adr20077 Human imm
137	8	1.6	536	10	ADD01461	Add01461 Rat TCH17	210	8	1.6	1701	10	ADJ95071	Adj95071 Novel NOV
138	8	1.6	545	4	AAI18020	Aai18020 Probe #79	211	8	1.6	1716	4	AAI59496	Aai59496 Human pol
139	8	1.6	545	4	ABA62988	Abh62988 Human foe	212	8	1.6	1725	3	AAAS1870	Aas1870 Human TAN
140	8	1.6	545	4	AAI43015	Aai43015 Probe #11	213	8	1.6	1761	11	ABD13100	Abd13100 Pseudomon
141	8	1.6	545	4	ABA30251	Abh30251 Probe #87	214	8	1.6	1767	11	ADD01393	Add01393 Human TCH
142	8	1.6	545	4	AAK37187	Aak37187 Human bon	215	8	1.6	1778	4	ABL14989	Abh14989 Drosophil
143	8	1.6	545	4	AAK11400	Aak11400 Human bra	216	8	1.6	1791	5	AA589905	Aas89905 DNA enco
144	8	1.6	545	4	ABS36858	Abh36858 Human liv	217	8	1.6	1791	5	AA579153	Aas79153 DNA enco
145	8	1.6	545	4	AAH09173	Aah09173 Human CDN	218	8	1.6	1803	10	ADD01411	Add01411 Mouse TCH
146	8	1.6	553	3	AAC07099	Aac07099 Human sec	219	8	1.6	1811	6	ABK87049	Abk87049 Human tra
147	8	1.6	553	12	ADQ92266	Adq92266 Human aut	220	8	1.6	1811	10	ADG88328	Adg88328 Human tra
148	8	1.6	585	6	ABQ16892	Abq16892 Oligonucle	221	8	1.6	1818	5	ADL63818	Adl63818 Human ova
149	8	1.6	585	6	ABQ16893	Abq16893 Oligonucle	222	8	1.6	1822	10	ADD01422	Add01422 Mouse TCH
150	8	1.6	587	4	AAK37568	Aak37568 Human bon	223	8	1.6	1839	6	ABN66146	Abn66146 Streptoco
151	8	1.6	587	4	AAK11857	Aak11857 Human bra	224	8	1.6	1842	8	ACA50601	Aca50601 Prokaryot

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:42:45 ; Search time 6301.53 Seconds

(without alignments)  
3806.273 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGEGSDRT.....LFAKGEVQNWATSDHQHGN 495

Scoring table: OLIGO

Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Word size: 1

Total number of hits satisfying chosen parameters: 9408497

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters: -DEV=xlh

-Q/cgn2\_1/USPTO spoil/US09776865/runat\_08072005\_175612\_23689/app query.fasta.1.1358  
-DB=GenEmbl -QFMT=fastap -SUFFIX=oligo.rge -MINMATCH=0.1 -LOOPEXT=0 -LOOPEXT=0  
-UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi -LIST=1000  
-DOCALIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc  
-NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865@cgn\_1.1.8225@runat\_08072005\_175612\_23689 -NCFU=6 -ICPU=3  
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : GenEmbl.\*

1: gb\_ba.\*  
2: gb\_htg.\*  
3: gb\_in.\*  
4: gb\_om.\*  
5: gb\_ov.\*  
6: gb\_pat.\*  
7: gb\_ph.\*  
8: gb\_pl.\*  
9: gb\_pr.\*  
10: gb\_ro.\*  
11: gb\_scs.\*  
12: gb\_sy.\*  
13: gb\_un.\*  
14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	495	100.0	2844	4 AF244578	AF244578 Ovis arie
2	495	100.0	2844	6 BD248126	BD248126 GBS toxin
3	495	100.0	2844	6 AX207626	AX207626 Sequence
4	62	12.5	23392	2 AC150504	AC150504 Bos tauru

5	61	12.3	375	6	AX118967	AX118967 Sequence
6	61	12.3	1485	6	BD248130	BD248130 GBS toxin
7	61	12.3	1587	9	AK025880	AK025880 Homo sapi
8	61	12.3	2512	6	AX138494	AX138494 Sequence
9	61	12.3	2512	6	HS387747	HS387747 Homo sapi
10	61	12.3	2602	6	BD248125	BD248125 GBS toxin
11	61	12.3	2712	6	CQ783928	CQ783928 Sequence
12	61	12.3	2712	6	BD127905	BD127905 Primer fo
13	61	12.3	2712	9	AK075320	AK075320 Homo sapi
14	61	12.3	2930	6	BD248129	BD248129 GBS toxin
15	61	12.3	2930	6	AX207624	AX207624 Sequence
16	61	12.3	3292	9	AF244577	AF244577 Homo sapi
17	61	12.3	3292	9	BC020961	BC020961 Homo sapi
18	61	12.3	3329	6	CQ776623	CQ776623 Sequence
19	61	12.3	3362	6	CQ412026	CQ412026 Sequence
20	48	9.7	1229	6	AR380115	AR380115 Sequence
21	43	8.7	113202	9	HSJ397H23	AL121972 Human DNA
22	43	8.7	157749	2	AC025535	AC025535 Homo sapi
23	43	8.7	185712	2	AC150017	AC150017 Papio anu
24	43	8.7	187017	2	AC150839	AC150839 Papio anu
25	42	8.5	752	6	CQ720578	CQ720578 Sequence
26	35	7.1	2006	9	AK026921	AK026921 Homo sapi
27	34	6.9	3121	5	AJ719840	AJ719840 Gallus ga
28	33	6.7	217	6	AR270039	AR270039 Sequence
29	33	6.7	149597	2	AC034271	AC034271 Homo sapi
30	33	6.7	194653	2	AC150717	AC150717 Callithrl
31	33	6.7	228433	10	AC097023	AC097023 Rattus no
32	32	6.5	853	6	CQ782221	CQ782221 Sequence
33	32	6.5	853	6	BD126930	BD126930 Primer fo
34	32	6.5	3152	10	BC058785	BC058785 Mus muscu
35	30	6.1	1485	6	BD248131	BD248131 GBS toxin
36	29	5.9	199	6	AX341073	AX341073 Sequence
37	29	5.9	494	6	CQ405758	CQ405758 Sequence
38	29	5.9	498	6	CQ392975	CQ392975 Sequence
39	29	5.9	498	6	CQ399373	CQ399373 Sequence
40	29	5.9	838	6	CQ780684	CQ780684 Sequence
41	29	5.9	838	6	BD125393	BD125393 Primer fo
42	29	5.9	144738	2	AC112668	AC112668 Mus muscu
43	27	5.5	137509	5	BX323884	BX323884 Zebrafish
44	27	5.5	228860	2	CR354610	CR354610 Danio rer
45	25	5.1	56641	2	AL138833	AL138833 Homo sapi
46	25	5.1	187017	2	AC150839	AC150839 Papio anu
47	25	5.1	188302	2	AC150022	AC150022 Papio anu
48	18	3.6	251	11	BV198823	BV198823 sqmm19855
49	18	3.6	264	6	CQ429871	CQ429871 Sequence
50	18	3.6	349	6	CQ420997	CQ420997 Sequence
51	12	2.4	1874	10	BC018306	BC018306 Mus muscu
52	12	2.4	1939	6	CQ575136	CQ575136 Sequence
53	12	2.4	2085	3	BT010092	BT010092 Drosophil
54	12	2.4	2266	6	AR036570	AR036570 Sequence
55	12	2.4	2266	6	BD084119	BD084119 Polymorph
56	12	2.4	2270	6	CQ715838	CQ715838 Sequence
57	12	2.4	2281	6	AX410807	AX410807 Sequence
58	12	2.4	2281	9	HSU90544	U90544 Human sodiu
59	12	2.4	4899	6	CQ575135	CQ575135 Sequence
60	12	2.4	33444	2	AC014246	AC014246 Drosophil
61	12	2.4	136646	9	AL138726	AL138726 Human DNA
62	12	2.4	137956	2	AC010918	AC010918 Drosophil
63	12	2.4	148975	2	AC012145	AC012145 Homo sapi
64	12	2.4	167926	3	AC023685	AC023685 Drosophil
65	12	2.4	174157	3	AC023711	AC023711 Drosophil
66	12	2.4	186062	10	AL590388	AL590388 Mouse DNA
67	12	2.4	209876	2	AL627315	AL627315 Mus muscu
68	12	2.4	235033	6	BD084121	BD084121 Polymorph
69	12	2.4	237326	6	BD084122	BD084122 Polymorph
70	12	2.4	240774	2	AC130391	AC130391 Rattus no
71	12	2.4	246240	6	AR036572	AR036572 Sequence
72	12	2.4	246240	6	AR036573	AR036573 Sequence
73	12	2.4	246282	9	HSU91328	U91328 Human hered
74	12	2.4	332029	3	AE003491	AE003491 Drosophil
75	12	2.4	838	5	AY559247	AY559247 Gallus ga
76	11	2.2	1299	6	CQ725168	CQ725168 Sequence

78	11	2.2	1720	3	AK116431	AK116431 Ciona int	c 151	9	1.8	1952	9	AF218942	AF218942 Homo sapi
79	11	2.2	2019	9	BC069629	BC069629 Homo sapi	c 152	9	1.8	1963	9	AF225426	AF225426 Homo sapi
80	11	2.2	2020	9	BC069640	BC069640 Homo sapi	c 153	9	1.8	2031	6	CQ609462	CQ609462 Sequence
81	11	2.2	2020	9	BC069646	BC069646 Homo sapi	154	9	1.8	2229	10	AB025224	AB025224 Rattus no
82	11	2.2	2528	6	AX709538	AX709538 Sequence	155	9	1.8	2316	10	AB025223	AB025223 Rattus no
83	11	2.2	2528	6	AX743498	AX743498 Sequence	c 156	9	1.8	2491	10	BC003920	BC003920 Mus muscu
84	11	2.2	2528	10	AF324864	AF324864 Mus muscu	c 157	9	1.8	2545	10	BC027240	BC027240 Mus muscu
85	11	2.2	3728	10	BC038375	BC038375 Mus muscu	c 158	9	1.8	2586	10	AF325535	AF325535 Mus muscu
86	11	2.2	3946	6	AX709532	AX709532 Sequence	159	9	1.8	3021	3	AY119484	AY119484 Drosophil
87	11	2.2	3946	6	AX743492	AX743492 Sequence	c 160	9	1.8	3317	6	CQ612639	CQ612639 Sequence
88	11	2.2	3946	9	AB032435	AB032435 Homo sapi	c 161	9	1.8	4348	3	AY195738	AY195738 Drosophil
89	11	2.2	3982	6	AX700122	AX700122 Sequence	c 162	9	1.8	5000	14	AF032994	AF032994 Trichoplu
90	11	2.2	3982	6	AX709534	AX709534 Sequence	163	9	1.8	5397	9	AB007955	AB007955 Homo sapi
91	11	2.2	3982	6	AX743494	AX743494 Sequence	164	9	1.8	7402	6	CQ612638	CQ612638 Sequence
92	11	2.2	3982	10	AF271235	AF271235 Rattus no	165	9	1.8	10734	1	AE006146	AE006146 Pasteurel
93	11	2.2	64356	2	AC090586	AC090586 Homo sapi	c 166	9	1.8	13706	3	U58737	U58737 Caenorhabdi
94	11	2.2	123847	2	AC118880	AC118880 Rattus no	167	9	1.8	14189	9	HSPLECTIN	Z54367 H sapiens g
95	11	2.2	143063	9	AC040936	AC040936 Homo sapi	168	9	1.8	14569	6	CQ723189	CQ723189 Sequence
96	11	2.2	146479	2	AC119499	AC119499 Rattus no	169	9	1.8	14626	9	AY480045	AY480045 Homo sapi
97	11	2.2	146515	9	AC104009	AC104009 Homo sapi	170	9	1.8	14646	9	AY480048	AY480048 Homo sapi
98	11	2.2	201957	2	AC113306	AC113306 Mus muscu	171	9	1.8	14675	9	AY480049	AY480049 Homo sapi
99	11	2.2	215541	2	AC016904	AC016904 Homo sapi	172	9	1.8	14689	9	AY480050	AY480050 Homo sapi
100	11	2.2	243860	2	AC114710	AC114710 Rattus no	173	9	1.8	14751	9	AY480046	AY480046 Homo sapi
101	11	2.2	323443	2	AC145086	AC145086 Mus muscu	174	9	1.8	14755	9	AY480044	AY480044 Homo sapi
102	11	2.2	1432	10	AY102171	AY102171 Rattus no	175	9	1.8	14797	9	AY480051	AY480051 Homo sapi
103	10	2.0	1575	6	CQ609459	CQ609459 Sequence	176	9	1.8	14800	6	AX334119	AX334119 Sequence
104	10	2.0	1641	6	CQ596652	CQ596652 Sequence	177	9	1.8	14800	9	HSU53204	HSU53204 Human plect
105	10	2.0	1700	6	AX827782	AX827782 Sequence	178	9	1.8	14835	6	AX281704	AX281704 Sequence
106	10	2.0	1700	10	RNU28504	U28504 Rattus norv	179	9	1.8	15243	9	AY480047	AY480047 Homo sapi
107	10	2.0	1786	6	CQ580608	CQ580608 Sequence	180	9	1.8	20717	2	AC013104	AC013104 Drosophil
108	10	2.0	1840	3	BT010253	BT010253 Drosophil	181	9	1.8	22693	9	HSPLEC183	U63610 Human plect
109	10	2.0	1841	3	AY060776	AY060776 Drosophil	182	9	1.8	37121	3	AC099766	AC099766 Caenorhab
110	10	2.0	1848	10	BC078748	BC078748 Rattus no	183	9	1.8	38164	2	AC142397	AC142397 Homo sapi
111	10	2.0	1885	10	MMNP71CT	X77241 M musculus	c 184	9	1.8	43668	9	AC142398	AC142398 Homo sapi
112	10	2.0	2004	10	BC013445	BC013445 Mus muscu	185	9	1.8	47337	2	EX548242	EX548242 Homo sapi
113	10	2.0	3810	6	CQ609458	CQ609458 Sequence	186	9	1.8	64135	9	ALU58080	ALU58080 Human DNA
114	10	2.0	4774	6	CQ580607	CQ580607 Sequence	187	9	1.8	74629	2	AC101440	AC101440 Mus muscu
115	10	2.0	6872	6	CQ596651	CQ596651 Sequence	188	9	1.8	75001	9	AC093167	AC093167 Homo sapi
116	10	2.0	7125	6	CQ609461	CQ609461 Sequence	c 189	9	1.8	76813	9	AL646016	AL646016 Homo sapi
117	10	2.0	19371	3	CEK1069	Z36282 Caenorhabdi	c 190	9	1.8	78340	5	AL935028	AL935028 Zebrafish
118	10	2.0	26206	10	MMU320524	AX320524 Mus muscu	c 191	9	1.8	86710	8	ATF23E12	ATF23E12 Arabidops
119	10	2.0	28772	3	CET07A5	Z48055 Caenorhabdi	c 192	9	1.8	86998	9	AP008275	AP008275 Homo sapi
120	10	2.0	36842	2	AC020252	AC020252 Drosophil	c 193	9	1.8	101601	9	AC079034	AC079034 Homo sapi
121	10	2.0	80091	9	AC094088	AC094088 Homo sapi	194	9	1.8	107893	5	EX276180	EX276180 Zebrafish
122	10	2.0	86419	3	AC004345	AC004345 Drosophil	c 195	9	1.8	109138	9	AC104084	AC104084 Homo sapi
123	10	2.0	93287	9	AC080097	AC080097 Homo sapi	c 196	9	1.8	110000	1	REU80928	REU80928 Rhizobium e
124	10	2.0	110000	2	EX321891_0	EX321891 Dario rer	c 197	9	1.8	110000	2	AC110929	AC110929 Rattus no
125	10	2.0	110000	2	EX321891_2	Continuation (3 of	c 198	9	1.8	112782	2	AL359829	AL359829 Homo sapi
126	10	2.0	110482	2	AC018326	AC018326 Drosophil	c 199	9	1.8	119199	2	AP003812	AP003812 Oryza sat
127	10	2.0	124224	5	EX294657	EX294657 Zebrafish	200	9	1.8	127274	10	AL935270	AL935270 Mouse DNA
128	10	2.0	149597	2	AC034371	AC034371 Homo sapi	c 201	9	1.8	135620	9	AC146048	AC146048 Pan trogl
129	10	2.0	167098	2	AC023952	AC023952 Homo sapi	c 202	9	1.8	137218	2	OSJN00037	OSJN00037 Oryza sat
130	10	2.0	170105	3	AC007756	AC007756 Drosophil	c 203	9	1.8	138780	8	AP004344	AP004344 Oryza sat
131	10	2.0	170939	3	AC007757	AC007757 Drosophil	c 204	9	1.8	140489	2	AC023066	AC023066 Homo sapi
132	10	2.0	173373	3	AC099016	AC099016 Drosophil	205	9	1.8	142726	9	AC104836	AC104836 Homo sapi
133	10	2.0	178044	2	AC121663	AC121663 Rattus no	c 206	9	1.8	150856	2	AC087072	AC087072 Homo sapi
134	10	2.0	183698	10	AL606464	AL606464 Mouse DNA	207	9	1.8	151448	2	AC074261	AC074261 Homo sapi
135	10	2.0	192358	3	AC099028	AC099028 Drosophil	c 208	9	1.8	153353	4	AC150707	AC150707 Bos tauru
136	10	2.0	209876	2	AL627315	AL627315 Mus muscu	c 209	9	1.8	155643	8	AP000391	AP000391 Oryza sat
137	10	2.0	221402	3	AE003730	AE003730 Drosophil	c 210	9	1.8	156064	9	AC083864	AC083864 Oryza sat
138	10	2.0	223365	3	AE003798	AE003798 Drosophil	c 211	9	1.8	156772	8	AC073405	AC073405 Oryza sat
139	9	1.8	495	10	F361762S09	AF361773 Mus muscu	c 212	9	1.8	157848	8	AP005744	AP005744 Oryza sat
140	9	1.8	660	8	HVLP90	X15692 Barley mRNA	c 213	9	1.8	158180	8	AP005916	AP005916 Oryza sat
141	9	1.8	764	8	HVLP60	X15691 Barley mRNA	c 214	9	1.8	162198	8	AP005877	AP005877 citib_19_o
142	9	1.8	1188	6	AX506256	AX506256 Sequence	c 215	9	1.8	163028	9	AC005877	AC005877 Mus muscu
143	9	1.8	1188	8	AY133542	AY133542 Arabidops	c 216	9	1.8	164518	2	AC122778	AC122778 Oryza sat
144	9	1.8	1367	8	AF462834	AF462834 Arabidops	c 217	9	1.8	165041	8	AP005837	AP005837 Pan trogl
145	9	1.8	1478	8	AY089078	AY089078 Arabidops	c 218	9	1.8	165269	9	AC140951	AC140951 Pan trogl
146	9	1.8	1518	10	AF326358	AF326358 Mus muscu	c 219	9	1.8	167161	2	AL645945	AL645945 Mus muscu
147	9	1.8	1542	9	BC014364	BC014364 Homo sapi	c 220	9	1.8	167578	5	EX649370	EX649370 Zebrafish
148	9	1.8	1671	10	AX009320	AX009320 Mus muscu	c 221	9	1.8	167663	9	AC093854	AC093854 Homo sapi
149	9	1.8	1684	10	BC078710	BC078710 Rattus no	c 222	9	1.8	167898	10	AL645630	AL645630 Mouse DNA
150	9	1.8	1938	6	AX285234	AX285234 Sequence	223	9	1.8	171025	9	AL161910	AL161910 Human DNA

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 16:46:21 ; Search time 4969.57 Seconds  
(without alignments)  
4105.478 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGATPPRPQPARPGPF.....LPAKEVQVWALNDHGHHRH 536

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 34239544 seqs, 19032134700 residues

Word size: 1

Total number of hits satisfying chosen parameters: 68477535

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame\_p2n.model -DEV=xlh  
-Q=/cgn2 1/USPTO spool/US09776865/runat\_08072005\_175612\_23695/app query.fasta\_1.1358  
-DB=EST -QFMT=fastap -SUFFIX=oligo.rst -MINMATCH=0.1 -LOPCL=0 -LOOPEXT=0  
-UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi -LIST=1000  
-LOCALIGN=200 -THR\_SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc  
-NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865 @CEN 1 1 6461 @runat\_08072005\_175612\_23695 -NCPU=6 -ICPU=3  
-NO\_WMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

EST:\*  
1: gb\_est1:\*  
2: gb\_est2:\*  
3: gb\_hic:\*  
4: gb\_est3:\*  
5: gb\_est4:\*  
6: gb\_est5:\*  
7: gb\_est6:\*  
8: gb\_gss1:\*  
9: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	520	97.0	3189	3	CR618872
2	285	53.2	1038	5	EX439809
3	251	46.8	1051	1	AL550137
4	211	39.4	663	7	CV023522
5	201	37.5	605	5	EX479639
6	194	36.2	584	5	BP288606
7	194	36.2	913	5	EX348297
8	193	36.0	581	5	BP298092
9	192	35.8	582	5	BP302998

10	189	35.3	570	5	BP274537
11	189	35.3	581	5	BP297030
12	189	35.3	626	2	BF676817
13	187	34.9	581	5	BP281761
14	186	34.7	901	6	CD106410
15	185	34.5	581	5	BP285186
16	185	34.5	582	5	BP288187
17	185	34.5	630	6	CB138761
18	181	33.8	583	4	BM838178
19	178	33.2	537	6	CB158910
20	178	33.2	537	6	CB159829
21	176	32.8	554	5	BP220609
22	175	32.6	582	5	BP367879
23	169	31.5	581	5	BP252687
24	161	30.0	579	5	BP344739
25	154	28.7	736	4	BI860521
26	152	28.4	1059	5	EX425026
27	150	28.0	582	5	BP287958
28	143	26.7	580	5	BP285113
29	141	26.3	700	2	BB869819
30	139	25.9	676	2	BB867611
31	133	24.8	736	5	BP223105
32	130	24.3	432	1	AA258513
33	122	22.8	582	5	BP285070
34	122	22.8	582	5	BP287215
35	114	21.6	754	4	BI907284
36	114	21.3	947	7	CO579484
37	106	19.8	579	5	BP333962
38	100	18.7	616	5	BP238694
39	96	17.9	602	5	BP349262
40	92	17.2	301	7	N31254
41	87	16.2	571	5	BP221449
42	87	16.2	708	7	CR763802
43	85	15.9	495	6	CR129218
44	79	14.7	367	7	H63685
45	75	14.0	499	1	AL597124
46	73	13.6	566	1	AU279688
47	71	13.2	893	4	BG541099
48	67	12.5	729	4	BF971208
49	65	12.3	506	6	CB161355
50	65	12.1	494	1	A1660219
51	65	12.1	877	9	CG465026
52	61	11.4	689	4	BG400588
53	61	11.4	700	7	CN786597
54	49	9.1	1007	4	BM804862
55	48	9.0	949	7	CF412264
56	47	8.8	429	2	BF563945
57	46	8.6	428	6	CB794359
58	45	8.4	737	7	CR833737
59	43	8.0	465	5	BQ322417
60	43	8.0	633	4	BI817031
61	43	8.0	848	9	CR812709
62	42	7.8	758	6	CB166094
63	39	7.3	770	5	EX674896
64	39	7.3	787	4	BG198416
65	36	6.7	721	7	CR833565
66	36	6.7	791	7	CV110989
67	35	6.5	611	1	AJ734276
68	35	6.5	773	1	AJ734267
69	34	6.3	618	7	CF170114
70	34	6.3	711	4	BI697765
71	34	6.3	730	6	CA327442
72	34	6.3	801	4	BI661062
73	34	6.3	813	7	CF618610
74	34	6.3	817	9	CF810037
75	34	6.3	3202	3	AK029102
76	33	6.2	498	4	BJ699380
77	33	6.2	509	4	BJ696296
78	33	6.2	618	4	BJ696202
79	33	6.2	620	4	BJ699327
80	32	6.0	279	7	CR462700
81	32	6.0	400	6	CB782262
82	32	6.0	518	1	AA833297

BP274537	BP274537
BP297030	BP297030
BF676817	602084380
BP281761	BP281761
CD106410	AGENCOURT
BP285186	BP285186
BP288187	BP288187
CB138761	K-EST0191
BM838178	K-EST0114
CB158910	K-EST0218
CB159829	K-EST0219
BP220609	BP220609
BP367879	BP367879
BP252687	BP252687
BP344739	BP344739
BI860521	603386787
EX425026	EX425026
BP287958	BP287958
BP285113	BP285113
BB869819	601446651
BB867611	601443127
BP223105	BP223105
AA258513	zr59401.r
BP285070	BP285070
BP287215	BP287215
BI907284	603063858
CO579484	ILLUMINEN
BP333962	BP333962
BP238694	BP238694
BP349262	BP349262
N31254	YX53H06.r1
BP221449	BP221449
CR763802	DKF2P4690
CR129218	K-EST0178
H63685	yr55e01.r1
AL597124	DKF2P311H
AU279688	AU279688
BG541099	602570265
BF971208	602273220
CB161355	K-EST0221
A1660219	we68e09.x
CG465026	KRI8B.2D
BG400588	602464241
CN786597	4120614.B
BM804862	AGENCOURT
CF412264	CH34078.F
BF563945	UI-R-C4.a
CB794359	AMGNNUC.T
CR833737	4057771.B
BQ322417	RC5-CS002
BI817031	UMN07B04
CR812709	GR0AAA36D
CB166094	KXE603014
EX674896	EX674896
BG198416	RST17674
CR833565	6057467.B
CV110989	AGENCOURT
AJ734276	AJ734276
AJ734267	AJ734267
CF170114	B0822602-
BI697765	603346858
CA327442	UI-W-FY0-
BI661062	603304362
CF618610	AGENCOURT
CF810037	GR0AAA33B
AK029102	Mus_muscu
BJ699380	BJ699380
BJ696296	BJ696296
BJ696202	BJ696202
BJ699327	BJ699327
CR462700	CR462700
CB782262	AMGNNUC.C
AA833297	ud05d09.r

83	32	6.0	658	4	BI851890	603378047	156	16	3.0	344	5	BY021590	BY021590
84	32	6.0	740	5	CB317739	AGENCOURT	c 157	16	3.0	423	9	CG653532	CG653532
85	32	6.0	1241	5	BU504522	AGENCOURT	c 158	16	3.0	909	9	CNS04M9J	AL297136 Tetraodon
86	31	5.8	495	6	CB713294	AMGNNUC:C	159	16	3.0	1028	6	CNS03M3Z	AL250856 Tetraodon
87	31	5.8	645	2	BB537525	BB537525	160	15	2.8	228	6	CD730851	CD730851 4039842 1
88	31	5.8	831	3	AK087395	Mus muscu	161	15	2.8	239	5	BY179630	BY179630 BY179630
c 89	30	5.6	321	2	AW531337	UI-R-C4-a	162	15	2.8	433	6	CB760265	CB760265 AMGNNUC:C
90	29	5.4	288	7	CR775730	DKF2p469C	163	15	2.8	485	4	BI041275	BI041275 MR4-NT014
91	27	5.0	599	4	BJ520485	BJ520485	164	15	2.8	560	4	BJ032567	BJ032567 BJ692156
c 92	27	5.0	649	1	AJ734277	AJ734277	165	15	2.8	575	4	BJ692156	BJ692156 BJ692156
93	27	5.0	661	4	BG400668	602464341	166	15	2.8	603	4	BJ703130	BJ703130 BJ703130
94	27	5.0	682	2	BB613552	BB613552	167	15	2.8	647	4	BI445533	BI445533 dae81h09.
95	27	5.0	776	5	BX882862	BX882862	168	14	2.6	412	6	BY645660	BY645660 BY645660
96	27	5.0	965	4	BG290613	602388889	c 169	14	2.6	604	1	AJ734275	AJ734275 AJ734275
97	26	4.9	610	1	AL792191	AL792191	170	14	2.6	2674	3	AK014522	AK014522 Mus muscu
98	25	4.7	785	7	CF285351	AGENCOURT	171	13	2.4	563	7	CK876614	CK876614 SGPI37897
99	24	4.5	447	6	CB747168	AMGNNUC:C	c 172	13	2.4	596	6	CB505018	CB505018 ssalplmb5
c 100	24	4.5	482	6	CB728076	AMGNNUC:C	173	13	2.4	646	9	DR48D4T	AL978749 Dario rer
c 101	24	4.5	587	9	CR035573	Forward s	174	13	2.4	774	5	BX864265	BX864265 BX864265
102	24	4.5	609	4	BJ692199	BJ692199	175	13	2.4	943	9	CNS035ZN	AL229388 Tetraodon
103	24	4.5	895	2	BF539146	602053009	c 176	12	2.2	387	8	AZ772115	AZ772115 IM0574G13
104	23	4.3	464	6	CB365128	CB365128	177	12	2.2	668	4	BJ649120	BJ649120 BJ649120
105	23	4.3	555	7	CK687033	CK687033	178	12	2.2	673	4	BJ646218	BJ646218 BJ646218
106	23	4.3	620	7	CF417013	STR01011	179	11	2.1	300	5	BY278427	BY278427 BY278427
107	23	4.3	686	7	CK690892	ZF101-P00	180	11	2.1	359	7	RI1332	RI1332 YF41911.1
108	23	4.3	731	7	CK696626	ZF101-P00	181	11	2.1	431	7	H52987	H52987 YG82H03.1
109	23	4.3	784	7	CK024678	AGENCOURT	182	11	2.1	472	5	BY240979	BY240979 BY240979
110	23	4.3	882	9	CN178455	AGENCOURT	183	11	2.1	485	6	CB727195	CB727195 AMGNNUC:N
c 111	22	4.1	348	9	CG498267	OST39440	c 184	11	2.1	548	5	BQ366104	BQ366104 QV4-GN012
112	22	4.1	436	6	BY651956	BY651956	185	11	2.1	581	5	BP361755	BP361755 BP361755
113	22	4.1	449	6	CB742771	AMGNNUC:C	186	11	2.1	582	5	BP309703	BP309703 BP309703
114	22	4.1	524	5	BY478871	BY478871	187	11	2.1	596	6	CB583897	CB583897 AMGNNUC:C
115	22	4.1	690	1	AJ447666	AJ447666	188	11	2.1	604	2	AV964340	AV964340 AV964340
116	22	4.1	738	1	AJ455947	AJ455947	189	11	2.1	605	7	CF534235	CF534235 UI-M-FY0-
c 117	22	4.1	752	2	BE876444	BE876444	190	11	2.1	615	2	AV963492	AV963492 AV963492
118	22	4.1	810	1	AJ455169	AJ455169	191	11	2.1	634	5	BU611855	BU611855 UI-M-F10-
119	21	3.9	311	5	BY190277	BY190277	192	11	2.1	635	6	BY723745	BY723745 BY723745
120	21	3.9	345	5	BY138011	BY138011	193	11	2.1	636	4	BJ617191	BJ617191 BJ617191
121	21	3.9	349	6	BY793266	BY793266	194	11	2.1	648	5	BW331471	BW331471 BW331471
122	21	3.9	355	5	BY196504	BY196504	195	11	2.1	649	5	BW328845	BW328845 BW328845
123	21	3.9	426	5	BY284055	BY284055	196	11	2.1	652	7	CF735479	CF735479 UI-M-HB0-
124	21	3.9	427	5	BY278620	BY278620	197	11	2.1	654	5	BU611275	BU611275 UI-M-F10-
125	21	3.9	436	5	BY246932	BY246932	198	11	2.1	656	6	CB247147	CB247147 UI-M-F10-
126	21	3.9	440	5	BY031138	BY031138	199	11	2.1	669	5	BW347197	BW347197 BW347197
127	21	3.9	457	5	BY241444	BY241444	200	11	2.1	673	5	BW262098	BW262098 BW262098
128	21	3.9	471	5	BY245489	BY245489	c 201	11	2.1	688	7	CN154791	CN154791 942031 MA
129	21	3.9	479	2	BB862822	BB862822	202	11	2.1	688	7	CN156898	CN156898 944335 MA
130	21	3.9	494	5	BY254429	BY254429	203	11	2.1	689	5	EX106560	EX106560 BX106560
131	21	3.9	573	9	CG533752	OST119370	204	11	2.1	707	5	BQ364515	BQ364515 603584810
132	21	3.9	629	2	BB664731	BB664731	205	11	2.1	713	7	CK420161	CK420161 AUF_Iptirk
133	21	3.9	647	7	CR427276	CR427276	206	11	2.1	728	5	BW429788	BW429788 BW429788
134	21	3.9	772	2	BF123545	BF123545	207	11	2.1	729	7	CK420266	CK420266 AUF_Iptirk
135	21	3.9	861	5	BY090788	AGENCOURT	208	11	2.1	790	5	BQ769444	BQ769444 UI-M-F10-
136	21	3.9	1100	4	BG866603	BG866603	209	11	2.1	806	4	BI730182	BI730182 60349726
137	21	3.9	1165	5	BQ715048	AGENCOURT	c 210	11	2.1	866	7	CK413667	CK413667 AUF_Iptirk
138	20	3.7	334	1	AJ734268	AJ734268	211	11	2.1	940	9	CU1516083	CU1516083 SAIL_912
139	20	3.7	445	2	BE375421	601230485	212	11	2.1	951	5	BQ959761	BQ959761 AGENCOURT
140	20	3.7	470	5	BQ345391	MR4-NT014	213	11	2.1	1716	9	AY415645	AY415645 Pan trogl
141	20	3.7	589	5	BU127798	603112964	214	11	2.1	1749	9	AY415644	AY415644 Homo sapi
142	19	3.5	587	4	BM179717	da11a10.	215	11	2.1	1749	9	AY415646	AY415646 Mus muscu
143	19	3.5	770	7	CF289959	AGENCOURT	216	11	2.1	2720	3	AK043753	AK043753 Mus muscu
144	19	3.5	886	5	BQ737435	AGENCOURT	217	11	2.1	3078	6	CD784886	CD784886 EST65247
145	19	3.5	904	2	BF124137	BF124137	218	10	1.9	437	3	AK045409	AK045409 Mus muscu
146	18	3.4	301	6	CB700764	CB700764	c 219	10	1.9	394	8	AQ224962	AQ224962 HS_2009_B
147	18	3.4	423	6	CB693459	AMGNNUC:C	c 220	10	1.9	414	9	CG565748	CG565748 OST1908T0
148	18	3.4	423	5	BY274305	BY274305	221	10	1.9	425	6	CB565748	CB565748 IPG012G02
149	18	3.4	429	8	BZ877289	CH240_276	222	10	1.9	435	5	BX549666	BX549666 BX549666
c 150	18	3.4	630	2	BB610013	BB610013	223	10	1.9	438	5	BX552282	BX552282 BX552282
151	18	3.4	632	4	BJ031727	BJ031727	224	10	1.9	464	2	BE722554	BE722554 190847 MA
152	17	3.2	55	1	AA625063	af66903_r	225	10	1.9	475	5	BX558184	BX558184 BX558184
153	17	3.2	331	5	BY317931	BY317931	c 226	10	1.9	486	8	B80770	B80770 CIT-HSP-200
154	17	3.2	425	7	CK688160	ZF101-P00	227	10	1.9	525	2	BE722641	BE722641 190866 MA
155	17	3.2	721	4	BJ060500	BJ060500	228	10	1.9	544	5	EX765507	EX765507 BX765507

## SUMMARIES

Pred. No. is the number of results predicted by chance to have a

C 66	9	1.7	252907	20	US-10-417-375-66	Sequence 66, Appl	139	8	1.5	760	21	US-10-643-836-122	Sequence 122, App
C 67	8	1.5	25	22	US-10-843-527-28883	Sequence 28883, A	140	8	1.5	762	9	US-09-731-872-234	Sequence 234, App
C 68	8	1.5	22	22	US-10-843-527-29859	Sequence 29859, A	141	8	1.5	762	9	US-09-876-997-234	Sequence 234, App
C 69	8	1.5	25	22	US-10-843-527-206854	Sequence 206854, A	142	8	1.5	762	21	US-10-643-836-234	Sequence 234, App
C 70	8	1.5	25	22	US-10-843-527-207830	Sequence 207830, A	143	8	1.5	773	21	US-10-425-115-21496	Sequence 21496, A
C 71	8	1.5	60	10	US-09-908-975-19851	Sequence 19851, A	144	8	1.5	786	13	US-10-027-632-152869	Sequence 152869, A
C 72	8	1.5	215	20	US-10-425-115-103673	Sequence 103673, A	145	8	1.5	786	17	US-10-027-632-152869	Sequence 152869, A
C 73	8	1.5	301	13	US-10-027-632-12420	Sequence 12420, A	146	8	1.5	799	13	US-10-027-632-165402	Sequence 165402, A
C 74	8	1.5	301	17	US-10-027-632-12420	Sequence 12420, A	147	8	1.5	799	17	US-10-027-632-165402	Sequence 165402, A
C 75	8	1.5	321	19	US-10-767-795-4558	Sequence 4558, Ap	148	8	1.5	800	13	US-10-194-163-676	Sequence 676, App
C 76	8	1.5	345	19	US-10-437-963-26074	Sequence 26074, A	149	8	1.5	828	20	US-10-363-345A-18203	Sequence 18203, A
C 77	8	1.5	369	19	US-10-437-963-100412	Sequence 100412, A	150	8	1.5	828	20	US-10-363-345A-18204	Sequence 18204, A
C 78	8	1.5	372	9	US-09-864-761-195	Sequence 195, App	151	8	1.5	828	21	US-10-363-483A-18203	Sequence 18203, A
C 79	8	1.5	390	21	US-10-461-862-49	Sequence 49, Appl	152	8	1.5	828	21	US-10-363-483A-18204	Sequence 18204, A
C 80	8	1.5	395	9	US-09-833-790-207	Sequence 207, Appl	153	8	1.5	833	19	US-10-767-701-8998	Sequence 8998, Ap
C 81	8	1.5	429	9	US-09-960-352-2218	Sequence 2218, Ap	154	8	1.5	855	13	US-10-027-632-168562	Sequence 168562, A
C 82	8	1.5	438	9	US-09-960-352-9784	Sequence 9784, Ap	155	8	1.5	855	17	US-10-027-632-168562	Sequence 168562, A
C 83	8	1.5	473	17	US-10-242-535A-42123	Sequence 42123, A	156	8	1.5	868	20	US-10-425-115-181557	Sequence 181557, A
C 84	8	1.5	473	18	US-10-085-783A-42123	Sequence 42123, A	157	8	1.5	874	20	US-10-363-345A-20585	Sequence 20585, A
C 85	8	1.5	474	20	US-10-425-115-118288	Sequence 118288, A	158	8	1.5	874	20	US-10-363-345A-20586	Sequence 20586, A
C 86	8	1.5	490	20	US-10-425-115-37022	Sequence 37022, A	159	8	1.5	874	21	US-10-363-483A-20585	Sequence 20585, A
C 87	8	1.5	511	20	US-10-363-345A-14569	Sequence 14569, A	160	8	1.5	874	21	US-10-363-483A-20586	Sequence 20586, A
C 88	8	1.5	511	20	US-10-363-345A-14570	Sequence 14570, A	161	8	1.5	875	13	US-10-027-632-132850	Sequence 132850, A
C 89	8	1.5	511	21	US-10-363-483A-14569	Sequence 14569, A	162	8	1.5	875	17	US-10-027-632-132850	Sequence 132850, A
C 90	8	1.5	511	21	US-10-363-483A-14570	Sequence 14570, A	163	8	1.5	887	9	US-09-730-212C-6	Sequence 6, Appl
C 91	8	1.5	522	20	US-10-425-115-21716	Sequence 21716, A	164	8	1.5	887	19	US-10-755-807-6	Sequence 6, Appl
C 92	8	1.5	524	18	US-10-424-599-112960	Sequence 112960, A	165	8	1.5	887	19	US-10-755-807-6	Sequence 6, Appl
C 93	8	1.5	526	13	US-10-027-632-276920	Sequence 276920, A	166	8	1.5	894	18	US-10-425-114-17850	Sequence 17850, A
C 94	8	1.5	526	17	US-10-027-632-276920	Sequence 276920, A	167	8	1.5	906	13	US-10-027-632-101120	Sequence 101120, A
C 95	8	1.5	526	19	US-10-767-701-20566	Sequence 20566, A	168	8	1.5	906	17	US-10-027-632-101120	Sequence 101120, A
C 96	8	1.5	530	13	US-10-027-632-280289	Sequence 280289, A	169	8	1.5	934	13	US-10-027-632-169748	Sequence 169748, A
C 97	8	1.5	530	17	US-10-027-632-280289	Sequence 280289, A	170	8	1.5	934	17	US-10-027-632-169748	Sequence 169748, A
C 98	8	1.5	536	22	US-10-499-731-97	Sequence 97, Appl	171	8	1.5	990	20	US-10-425-115-86656	Sequence 86656, A
C 99	8	1.5	541	13	US-10-027-632-13184	Sequence 13184, A	172	8	1.5	999	17	US-10-425-115-21377	Sequence 21377, A
C 100	8	1.5	541	17	US-10-027-632-13184	Sequence 13184, A	173	8	1.5	1047	19	US-10-369-493-24282	Sequence 24282, A
C 101	8	1.5	554	9	US-09-864-761-9014	Sequence 9014, Ap	174	8	1.5	1047	19	US-10-437-963-60849	Sequence 60849, Ap
C 102	8	1.5	557	20	US-10-425-115-106414	Sequence 106414, A	175	8	1.5	1057	20	US-10-653-047-5898	Sequence 5898, Ap
C 103	8	1.5	558	9	US-09-864-761-8151	Sequence 8151, Ap	176	8	1.5	1066	18	US-10-425-114-7719	Sequence 7719, App
C 104	8	1.5	564	19	US-10-437-963-51869	Sequence 51869, A	177	8	1.5	1085	17	US-10-295-027-313	Sequence 313, App
C 105	8	1.5	578	13	US-10-027-632-105536	Sequence 105536, A	178	8	1.5	1085	19	US-10-761-169-3	Sequence 3, Appl
C 106	8	1.5	578	13	US-10-027-632-289806	Sequence 289806, A	179	8	1.5	1087	16	US-10-233-045-3	Sequence 3, Appl
C 107	8	1.5	578	17	US-10-027-632-105536	Sequence 105536, A	180	8	1.5	1090	20	US-10-739-930-5143	Sequence 5143, Ap
C 108	8	1.5	578	17	US-10-027-632-289806	Sequence 289806, A	181	8	1.5	1094	18	US-10-425-114-14066	Sequence 14066, A
C 109	8	1.5	585	13	US-10-027-632-289806	Sequence 289806, A	182	8	1.5	1101	20	US-10-425-115-151323	Sequence 151323, A
C 110	8	1.5	585	13	US-10-027-632-195227	Sequence 195227, A	183	8	1.5	1103	18	US-10-412-6998-1261	Sequence 1261, App
C 111	8	1.5	585	17	US-10-027-632-195227	Sequence 195227, A	184	8	1.5	1119	20	US-10-482-706-254	Sequence 254, App
C 112	8	1.5	587	9	US-09-864-761-13594	Sequence 13594, A	185	8	1.5	1158	19	US-10-437-963-79007	Sequence 79007, A
C 113	8	1.5	612	18	US-10-425-114-19884	Sequence 19884, A	186	8	1.5	1166	19	US-10-767-701-12427	Sequence 12427, A
C 114	8	1.5	633	20	US-10-363-345A-33829	Sequence 33829, A	187	8	1.5	1175	20	US-10-425-115-160225	Sequence 160225, A
C 115	8	1.5	633	20	US-10-363-345A-33830	Sequence 33830, A	188	8	1.5	1175	20	US-10-393-590-32	Sequence 32, Appl
C 116	8	1.5	633	21	US-10-363-483A-33829	Sequence 33829, A	189	8	1.5	1181	16	US-10-393-590-68	Sequence 68, Appl
C 117	8	1.5	633	21	US-10-363-483A-33830	Sequence 33830, A	190	8	1.5	1181	16	US-10-393-567-32	Sequence 32, Appl
C 118	8	1.5	644	13	US-10-027-632-284650	Sequence 284650, A	191	8	1.5	1181	16	US-10-393-567-67	Sequence 67, Appl
C 119	8	1.5	644	13	US-10-027-632-284651	Sequence 284651, A	192	8	1.5	1181	16	US-10-394-087-32	Sequence 32, Appl
C 120	8	1.5	644	17	US-10-027-632-284650	Sequence 284650, A	193	8	1.5	1181	16	US-10-394-087-68	Sequence 68, Appl
C 121	8	1.5	644	17	US-10-027-632-284651	Sequence 284651, A	194	8	1.5	1191	17	US-10-369-493-43790	Sequence 43790, A
C 122	8	1.5	644	17	US-10-027-632-284652	Sequence 284652, A	195	8	1.5	1228	18	US-10-437-963-100596	Sequence 100596, A
C 123	8	1.5	644	19	US-10-437-963-47966	Sequence 47966, A	196	8	1.5	1287	19	US-10-425-114-1563	Sequence 1563, Ap
C 124	8	1.5	650	20	US-10-425-115-155889	Sequence 155889, A	197	8	1.5	1367	18	US-10-425-114-21194	Sequence 21194, A
C 125	8	1.5	666	17	US-10-369-493-28698	Sequence 28698, A	198	8	1.5	1367	18	US-10-437-963-36502	Sequence 36502, A
C 126	8	1.5	686	13	US-10-027-632-16938	Sequence 16938, A	199	8	1.5	1420	18	US-10-424-599-139779	Sequence 139779, A
C 127	8	1.5	686	17	US-10-027-632-16938	Sequence 16938, A	200	8	1.5	1420	18	US-10-424-599-139779	Sequence 139779, A
C 128	8	1.5	692	20	US-10-425-115-101692	Sequence 101692, A	201	8	1.5	1436	20	US-09-771-161A-28	Sequence 28, Appl
C 129	8	1.5	705	17	US-10-282-132A-20195	Sequence 20195, A	202	8	1.5	1436	20	US-10-425-115-155893	Sequence 155893, A
C 130	8	1.5	706	19	US-10-767-701-3505	Sequence 3505, Ap	203	8	1.5	1476	19	US-10-369-493-47051	Sequence 47051, A
C 131	8	1.5	729	17	US-10-282-132A-13612	Sequence 13612, A	204	8	1.5	1476	19	US-10-437-963-68040	Sequence 68040, A
C 132	8	1.5	746	13	US-10-027-632-150370	Sequence 150370, A	205	8	1.5	1494	20	US-10-425-115-138786	Sequence 138786, A
C 133	8	1.5	746	17	US-10-027-632-150370	Sequence 150370, A	206	8	1.5	1505	20	US-10-425-115-97703	Sequence 97703, A
C 134	8	1.5	746	20	US-10-425-115-128408	Sequence 128408, A	207	8	1.5	1539	20	US-10-425-115-143666	Sequence 143666, A
C 135	8	1.5	747	17	US-10-369-493-37790	Sequence 37790, A	208	8	1.5	1551	20	US-10-425-115-160227	Sequence 160227, A
C 136	8	1.5	747	18	US-10-424-599-103353	Sequence 103353, A	209	8	1.5	1592	18	US-10-425-114-15828	Sequence 15828, A
C 137	8	1.5	760	9	US-09-731-872-122	Sequence 122, App	210	8	1.5	1602	9	US-09-938-842A-857	Sequence 857, App
C 138	8	1.5	760	10	US-09-876-997-122	Sequence 122, App	211	8	1.5	1602	11	US-09-938-842A-857	Sequence 857, App



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 17:15:15 ; Search time 253.703 Seconds

(Without alignment)  
3456.970 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGANTPPRPVQPARPGF.....LFAKGEVQNALNDHGHHRH 536

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1202784 seqs, 818138359 residues

Word size: 1

Total number of hits satisfying chosen parameters: 24000006

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh  
-Q=/cgn2\_1/USPTO\_epool/US09776865/runat 08072005 175613 23708/app query.fasta\_1.1358  
-DB=Issued Patents NA -QFWT=fastap -SUFFIX=oligo.rni -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40 cdi  
-LIST=1000 -DOCALLIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFWT=ptco -NORM=ext -HRAPISE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865@cgn2\_1 1 277 @runat 08072005 175613 23708 -NCPUS=6 -ICPU=3  
-NO MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	536	100.0	2930	4	US-09-359-167-7
2	529	98.7	2513	4	US-09-949-016-1834
3	514	95.9	2602	4	US-09-359-167-1
4	119	22.2	1229	4	US-09-023-655-660
5	78	14.6	63783	4	US-09-949-016-13576
6	69	12.9	217	4	US-09-016-434-602
7	61	11.4	1485	4	US-09-359-167-9
8	45	8.4	601	4	US-09-949-016-63336
C 9	30	5.6	601	4	US-09-949-016-63313
C 10	30	5.6	601	4	US-09-949-016-63314
C 11	30	5.6	1485	4	US-09-359-167-11
12	30				

C 13	22	4.1	601	4	US-09-949-016-63335	Sequence 63335, A
C 14	14	2.6	601	4	US-09-949-016-63315	Sequence 63315, A
C 15	13	2.4	601	4	US-09-949-016-63357	Sequence 63357, A
C 16	17	1.9	2266	2	US-08-724-394A-18	Sequence 18, Appl
C 17	10	1.9	2270	4	US-09-949-016-5577	Sequence 5577, Ap
C 18	10	1.9	21862	4	US-09-949-016-17319	Sequence 17319, A
C 19	10	1.9	246240	2	US-08-724-394A-20	Sequence 20, Appl
C 20	10	1.9	246240	2	US-08-724-394A-21	Sequence 21, Appl
C 21	10	1.9	246240	2	US-08-724-394A-22	Sequence 22, Appl
C 22	9	1.7	1374	4	US-09-902-540-6766	Sequence 6766, Ap
C 23	9	1.7	3344	4	US-09-902-540-552	Sequence 552, App
C 24	8	1.5	318	2	US-08-611-757-94	Sequence 94, Appl
C 25	8	1.5	318	5	PCT-US95-05980-94	Sequence 94, Appl
C 26	8	1.5	330	4	US-09-252-991A-3498	Sequence 3498, Ap
C 27	8	1.5	522	4	US-09-902-540-2878	Sequence 2878, Ap
C 28	8	1.5	524	4	US-09-270-767-1440	Sequence 1440, Ap
C 29	8	1.5	524	4	US-09-270-767-16722	Sequence 16722, A
C 30	8	1.5	601	4	US-09-949-016-32335	Sequence 32335, A
C 31	8	1.5	601	4	US-09-949-016-32336	Sequence 32336, A
C 32	8	1.5	601	4	US-09-949-016-32340	Sequence 32340, A
C 33	8	1.5	601	4	US-09-949-016-41432	Sequence 41432, A
C 34	8	1.5	601	4	US-09-949-016-41433	Sequence 41433, A
C 35	8	1.5	601	4	US-09-949-016-41437	Sequence 41437, A
C 36	8	1.5	601	4	US-09-949-016-47531	Sequence 47531, A
C 37	8	1.5	601	4	US-09-949-016-47532	Sequence 47532, A
C 38	8	1.5	601	4	US-09-949-016-52009	Sequence 52009, A
C 39	8	1.5	601	4	US-09-949-016-55557	Sequence 55557, A
C 40	8	1.5	601	4	US-09-949-016-55558	Sequence 55558, A
C 41	8	1.5	601	4	US-09-949-016-91666	Sequence 91666, A
C 42	8	1.5	601	4	US-09-949-016-91667	Sequence 91667, A
C 43	8	1.5	601	4	US-09-949-016-91668	Sequence 91668, A
C 44	8	1.5	601	4	US-09-949-016-130490	Sequence 130490, A
C 45	8	1.5	601	4	US-09-949-016-130491	Sequence 130491, A
C 46	8	1.5	601	4	US-09-949-016-167271	Sequence 167271, A
C 47	8	1.5	601	4	US-09-949-016-167272	Sequence 167272, A
C 48	8	1.5	601	4	US-09-949-016-167273	Sequence 167273, A
C 49	8	1.5	601	4	US-09-949-016-189035	Sequence 189035, A
C 50	8	1.5	601	4	US-09-949-016-194607	Sequence 194607, A
C 51	8	1.5	601	4	US-09-949-016-194608	Sequence 194608, A
C 52	8	1.5	601	4	US-09-949-016-194609	Sequence 194609, A
C 53	8	1.5	657	4	US-09-902-540-4465	Sequence 4465, Ap
C 54	8	1.5	705	4	US-09-902-540-7679	Sequence 7679, Ap
C 55	8	1.5	777	4	US-09-489-039A-6295	Sequence 6295, Ap
C 56	8	1.5	800	3	US-09-221-017B-676	Sequence 676, App
C 57	8	1.5	807	4	US-09-252-991A-5059	Sequence 5059, Ap
C 58	8	1.5	834	4	US-09-540-236-945	Sequence 945, App
C 59	8	1.5	887	4	US-09-730-212C-6	Sequence 6, Appl
C 60	8	1.5	957	4	US-09-902-540-4213	Sequence 4213, Ap
C 61	8	1.5	960	4	US-09-902-540-106	Sequence 106, App
C 62	8	1.5	1062	4	US-09-902-540-633	Sequence 633, App
C 63	8	1.5	1140	3	US-09-023-173-4	Sequence 4, Appl
C 64	8	1.5	1212	4	US-09-252-991A-5157	Sequence 5157, Ap
C 65	8	1.5	1353	4	US-09-902-540-4241	Sequence 4241, Ap
C 66	8	1.5	1358	4	US-09-902-540-3270	Sequence 3270, Ap
C 67	8	1.5	1395	4	US-09-107-532A-1855	Sequence 1855, Ap
C 68	8	1.5	1473	4	US-09-252-991A-9679	Sequence 9679, Ap
C 69	8	1.5	1506	4	US-09-252-991A-5025	Sequence 5025, Ap
C 70	8	1.5	1811	4	US-09-740-041-1	Sequence 1, Appl
C 71	8	1.5	1929	4	US-09-902-540-9129	Sequence 9129, Ap
C 72	8	1.5	2052	3	US-09-134-001C-2739	Sequence 2739, Ap
C 73	8	1.5	2064	4	US-09-252-991A-9616	Sequence 9616, Ap
C 74	8	1.5	2296	4	US-09-949-016-1182	Sequence 1182, Ap
C 75	8	1.5	2366	4	US-09-949-016-5483	Sequence 5483, Ap
C 76	8	1.5	2513	4	US-09-949-016-1834	Sequence 1834, Ap
C 77	8	1.5	2607	4	US-09-915-181A-1	Sequence 1, Appl
C 78	8	1.5	2626	4	US-09-949-016-745	Sequence 745, App
C 79	8	1.5	2703	4	US-09-248-796A-4178	Sequence 4178, Ap
C 80	8	1.5	2716	1	US-08-647-484-1	Sequence 1, Appl
C 81	8	1.5	2716	1	US-08-647-484-3	Sequence 3, Appl
C 82	8	1.5	2716	1	US-08-647-481-1	Sequence 1, Appl
C 83	8	1.5	2716	1	US-08-647-481-3	Sequence 3, Appl
C 84	8	1.5	2716	1	US-08-430-033A-1	Sequence 1, Appl
C 85	8	1.5	2716	1	US-08-430-033A-3	Sequence 3, Appl

86	8	1.5	2716	5	PCT-US96-05792-1	Sequence 1, Appli	c 159	8	1.5	254778	4	US-09-949-016-12417	Sequence 12417, A
87	8	1.5	2716	5	PCT-US96-05792-3	Sequence 3, Appli	160	8	1.5	264206	4	US-09-949-016-12731	Sequence 12731, A
88	8	1.5	3001	4	US-09-539-333D-170	Sequence 170, App	161	8	1.5	264304	4	US-09-949-016-13249	Sequence 13249, A
89	8	1.5	3162	4	US-09-253-991A-9569	Sequence 9569, Ap	c 162	8	1.5	275110	4	US-09-949-016-12706	Sequence 12706, A
90	8	1.5	3211	4	US-09-710-279-4211	Sequence 4211, Ap	c 163	8	1.5	275110	4	US-09-949-016-16070	Sequence 16070, A
c 91	8	1.5	3254	4	US-09-710-279-4202	Sequence 4202, Ap	c 164	8	1.5	451924	4	US-09-949-016-12896	Sequence 12896, A
c 92	8	1.5	3293	4	US-09-792-024-62	Sequence 62, Appl	c 165	8	1.5	451925	4	US-09-949-016-17305	Sequence 17305, A
c 93	8	1.5	3294	4	US-09-792-024-58	Sequence 58, Appl	c 166	8	1.5	1664976	4	US-08-916-4213-1	Sequence 1, Appli
c 94	8	1.5	3563	4	US-09-710-279-3372	Sequence 3372, Ap	c 167	8	1.5	1664976	4	US-09-692-570-1	Sequence 1, Appli
c 95	8	1.5	3597	4	US-09-902-540-5402	Sequence 5402, Ap	c 168	8	1.5	4403765	3	US-09-103-840A-2	Sequence 1, Appli
c 96	8	1.5	7170	4	US-09-902-540-933	Sequence 933, App	169	8	1.5	4411529	3	US-09-103-840A-1	Sequence 1, Appli
c 97	8	1.5	7731	4	US-09-949-016-13135	Sequence 13135, A	c 170	8	1.3	25	4	US-09-866-108A-4132	Sequence 4132, Ap
c 98	8	1.5	9608	4	US-09-949-016-16706	Sequence 16706, A	c 171	7	1.3	25	4	US-09-866-108A-4134	Sequence 4134, Ap
c 99	8	1.5	10216	4	US-09-902-540-976	Sequence 976, App	c 172	7	1.3	25	4	US-09-866-108A-4134	Sequence 4134, Ap
c 100	8	1.5	12787	4	US-09-949-016-16359	Sequence 16359, A	c 173	7	1.3	25	4	US-09-866-108A-4136	Sequence 4136, Ap
c 101	8	1.5	15543	4	US-09-949-016-17225	Sequence 17225, A	c 174	7	1.3	25	4	US-09-866-108A-4136	Sequence 4136, Ap
c 102	8	1.5	17480	4	US-09-902-540-1151	Sequence 1151, Ap	c 175	7	1.3	25	4	US-09-396-196G-23055	Sequence 23055, A
c 103	8	1.5	17592	4	US-09-902-540-1138	Sequence 1138, Ap	c 176	7	1.3	25	4	US-09-396-196G-64673	Sequence 64673, A
c 104	8	1.5	19161	4	US-09-949-016-15731	Sequence 15731, A	c 177	7	1.3	25	4	US-09-396-196G-89514	Sequence 89514, A
c 105	8	1.5	20444	4	US-09-949-016-15750	Sequence 15750, A	c 178	7	1.3	25	4	US-09-396-196G-89515	Sequence 89515, A
c 106	8	1.5	20966	4	US-09-776-976-7	Sequence 7, Appli	c 179	7	1.3	66	4	US-09-120-561C-4	Sequence 4, Appli
c 107	8	1.5	20966	4	US-09-909-547-7	Sequence 7, Appli	c 180	7	1.3	66	4	US-09-513-999C-16232	Sequence 16232, A
c 108	8	1.5	20966	4	US-09-569-852B-1	Sequence 1, Appli	c 181	7	1.3	67	3	US-09-242-890A-56	Sequence 56, Appl
c 109	8	1.5	23330	4	US-09-902-540-1209	Sequence 1209, Ap	c 182	7	1.3	67	4	US-09-908-855-56	Sequence 56, Appl
c 110	8	1.5	23301	4	US-09-949-016-12924	Sequence 12924, A	c 183	7	1.3	81	4	US-09-513-999C-19140	Sequence 19140, A
c 111	8	1.5	24791	4	US-09-902-540-1211	Sequence 1211, Ap	c 184	7	1.3	110	3	US-08-482-073-2	Sequence 2, Appli
c 112	8	1.5	26619	4	US-09-949-016-15030	Sequence 15030, A	c 185	7	1.3	131	4	US-09-621-976-17442	Sequence 17442, A
c 113	8	1.5	28172	4	US-09-902-540-1221	Sequence 1221, Ap	c 186	7	1.3	137	4	US-09-313-294A-6414	Sequence 6414, Ap
c 114	8	1.5	29465	4	US-09-949-016-12487	Sequence 12487, A	c 187	7	1.3	140	4	US-09-621-976-17457	Sequence 17457, A
c 115	8	1.5	34552	4	US-09-902-540-1262	Sequence 1262, Ap	c 188	7	1.3	148	4	US-09-270-767-29675	Sequence 29675, A
c 116	8	1.5	35122	4	US-09-949-016-11873	Sequence 11873, A	c 189	7	1.3	167	4	US-09-513-999C-33418	Sequence 33418, A
c 117	8	1.5	47683	4	US-09-949-016-16460	Sequence 16460, A	c 190	7	1.3	185	4	US-09-270-767-28795	Sequence 28795, A
c 118	8	1.5	47799	4	US-09-949-016-13363	Sequence 13363, A	c 191	7	1.3	185	4	US-09-270-767-29422	Sequence 29422, A
c 119	8	1.5	63783	4	US-09-949-016-13576	Sequence 13576, A	c 192	7	1.3	185	4	US-09-270-767-30414	Sequence 30414, A
c 120	8	1.5	65804	4	US-09-740-041-3	Sequence 3, Appli	c 193	7	1.3	189	4	US-09-107-532A-2866	Sequence 2866, Ap
c 121	8	1.5	7626	4	US-09-949-016-12608	Sequence 12608, A	c 194	7	1.3	190	4	US-09-513-999C-28555	Sequence 28555, A
c 122	8	1.5	84171	4	US-09-949-016-16356	Sequence 16356, A	c 195	7	1.3	207	4	US-09-270-767-30137	Sequence 30137, A
c 123	8	1.5	86414	4	US-09-949-016-12345	Sequence 12345, A	c 196	7	1.3	208	4	US-09-621-976-68884	Sequence 6884, Ap
c 124	8	1.5	86414	4	US-09-949-016-15758	Sequence 15758, A	c 197	7	1.3	213	3	US-09-189-060B-49	Sequence 49, Appl
c 125	8	1.5	88950	4	US-09-949-016-17150	Sequence 17150, A	c 198	7	1.3	213	4	US-09-902-540-8261	Sequence 8261, Ap
c 126	8	1.5	103447	4	US-09-949-016-16320	Sequence 16320, A	c 199	7	1.3	214	3	US-09-242-890A-10	Sequence 10, Appl
c 127	8	1.5	119032	4	US-09-949-016-12160	Sequence 12160, A	c 200	7	1.3	214	4	US-09-908-855-10	Sequence 10, Appl
c 128	8	1.5	119032	4	US-09-949-016-17268	Sequence 17268, A	c 201	7	1.3	217	6	5217870-3	Patent No. 5217870
c 129	8	1.5	137753	4	US-09-949-016-17404	Sequence 17404, A	c 202	7	1.3	217	6	5217870-3	Patent No. 5217870
c 130	8	1.5	142783	4	US-09-949-016-15127	Sequence 15127, A	c 203	7	1.3	221	4	US-09-313-294A-278	Sequence 278, App
c 131	8	1.5	146307	4	US-09-949-016-14881	Sequence 14881, A	c 204	7	1.3	222	4	US-09-248-796A-11411	Sequence 11411, A
c 132	8	1.5	146307	4	US-09-949-016-14882	Sequence 14882, A	c 205	7	1.3	225	4	US-09-248-796A-12859	Sequence 12859, A
c 133	8	1.5	146307	4	US-09-949-016-14883	Sequence 14883, A	c 206	7	1.3	228	4	US-09-313-294A-2469	Sequence 2469, Ap
c 134	8	1.5	146307	4	US-09-949-016-14884	Sequence 14884, A	c 207	7	1.3	233	4	US-09-513-999C-18597	Sequence 18597, A
c 135	8	1.5	146307	4	US-09-949-016-14885	Sequence 14885, A	c 208	7	1.3	240	4	US-09-489-039A-216	Sequence 216, App
c 136	8	1.5	146307	4	US-09-949-016-14886	Sequence 14886, A	c 209	7	1.3	244	4	US-09-513-999C-13278	Sequence 13278, A
c 137	8	1.5	146307	4	US-09-949-016-14887	Sequence 14887, A	c 210	7	1.3	245	4	US-09-313-294A-2412	Sequence 2412, Ap
c 138	8	1.5	146307	4	US-09-949-016-14888	Sequence 14888, A	c 211	7	1.3	250	4	US-09-513-999C-19631	Sequence 19631, A
c 139	8	1.5	148405	4	US-09-949-016-11747	Sequence 11747, A	c 212	7	1.3	252	4	US-09-313-294A-2329	Sequence 2329, Ap
c 140	8	1.5	148405	4	US-09-949-016-12835	Sequence 12835, A	c 213	7	1.3	255	4	US-09-513-999C-10299	Sequence 10299, A
c 141	8	1.5	148405	4	US-09-949-016-12836	Sequence 12836, A	c 214	7	1.3	256	3	US-09-109-024-21	Sequence 21, Appl
c 142	8	1.5	148405	4	US-09-949-016-12837	Sequence 12837, A	c 215	7	1.3	256	4	US-09-490-032-21	Sequence 22, Appl
c 143	8	1.5	177251	4	US-09-949-016-15841	Sequence 15841, A	c 216	7	1.3	258	4	US-09-109-204-22	Sequence 22, Appl
c 144	8	1.5	197336	4	US-09-949-016-12881	Sequence 12881, A	c 217	7	1.3	258	4	US-09-490-032-22	Sequence 22, Appl
c 145	8	1.5	197337	4	US-09-949-016-14376	Sequence 14376, A	c 218	7	1.3	263	4	US-09-913-514-30	Sequence 30, Appl
c 146	8	1.5	197875	4	US-09-949-016-15425	Sequence 15425, A	c 219	7	1.3	265	4	US-09-913-514-38	Sequence 38, Appl
c 147	8	1.5	200663	4	US-09-949-016-12569	Sequence 12569, A	c 220	7	1.3	266	4	US-09-270-767-898	Sequence 898, App
c 148	8	1.5	203093	4	US-09-949-016-14445	Sequence 14445, A	c 221	7	1.3	266	4	US-09-270-767-16180	Sequence 16180, A
c 149	8	1.5	203475	4	US-09-949-016-14516	Sequence 14516, A	c 222	7	1.3	271	4	US-09-913-514-29	Sequence 29, Appl
c 150	8	1.5	203475	4	US-09-949-016-14517	Sequence 14517, A	c 223	7	1.3	279	4	US-09-252-991A-9776	Sequence 9776, Ap
c 151	8	1.5	203475	4	US-09-949-016-14518	Sequence 14518, A	c 224	7	1.3	288	4	US-09-513-999C-27104	Sequence 27104, A
c 152	8	1.5	203475	4	US-09-949-016-14519	Sequence 14519, A	c 225	7	1.3	291	4	US-09-313-294A-5500	Sequence 5500, Ap
c 153	8	1.5	203475	4	US-09-949-016-17226	Sequence 17226, A	c 226	7	1.3	297	4	US-09-107-433-532	Sequence 532, App
c 154	8	1.5	203475	4	US-09-949-016-17227	Sequence 17227, A	c 227	7	1.3	302	4	US-09-016-434-975	Sequence 975, App
c 155	8	1.5	203475	4	US-09-949-016-17228	Sequence 17228, A	c 228	7	1.3	309	4	US-09-016-434-975	Sequence 2591, App
c 156	8	1.5	203475	4	US-09-949-016-17229	Sequence 17229, A	c 229	7	1.3	310	3	US-09-286-132-16	Sequence 16, Appl
c 157	8	1.5	206433	4	US-09-949-016-13527	Sequence 13527, A	c 230	7	1.3	310	3	US-09-836-941-16	Sequence 16, Appl
c 158	8	1.5	234288	4	US-09-949-016-17272	Sequence 17272, A	c 231	7	1.3	324	3	US-09-240-274-122	Sequence 122, App

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:33:45 ; Search time 803.74 Seconds

(without alignment)  
3947.771 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGATPPRPVQPARPGF.....LFAKGEVQWALNDHGHHRH 536

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Word size: 1

Total number of hits satisfying chosen parameters: 8776198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame+pn.model -DEV=xlh  
-Q=/cgn2\_1/USPTO\_spool/US0976865/runat\_08072005\_175611\_23683/app\_query.fasta\_1.1358  
-DB=N Geneseq 16Dec04 -QFWT=fastap -SUFFIX=oligo.rng -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=oligo -TRANS=human40.cdi  
-LIST=1000 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFWT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US0976865@cgn\_1\_1004/runat\_08072005\_175611\_23683 -NCPU=6 -ICPU=3  
-NO MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THRA=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : N Geneseq 16Dec04:\*

1: Geneseqn1980s:\*

2: Geneseqn1990s:\*

3: Geneseqn2000s:\*

4: Geneseqn2001as:\*

5: Geneseqn2001bs:\*

6: Geneseqn2002as:\*

7: Geneseqn2002bs:\*

8: Geneseqn2003as:\*

9: Geneseqn2003bs:\*

10: Geneseqn2003cs:\*

11: Geneseqn2003ds:\*

12: Geneseqn2004as:\*

13: Geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	536	100.0	2930	3	Az50879 Full leng
2	536	100.0	2930	4	Ad10325 Human gro
3	529	98.7	2511	12	AdQ84158 Human tum
4	529	98.7	2512	4	Aaf55900 Human AST
5	529	98.7	2626	11	Acn91332 Breast ca

6	529	98.7	3362	5	ADL45207	Adl45207 Human ova
7	522	97.4	3329	12	ADJ75057	Adj75057 Marker ge
8	522	97.4	3329	13	ADRI4586	Adri4586 Human NF-
9	522	97.4	3329	13	ADP25216	Adp25216 PRO poly p
10	514	95.9	2602	3	Az50875	Az50875 Partial h
11	394	73.5	1488	4	AAI58115	AAI58115 Human pol
12	321	59.9	2670	4	AAH79234	AAH79234 Human ood
13	304	56.7	929	4	AAI59901	AAI59901 Human pol
14	300	56.0	2712	4	AAK94876	AAK94876 Human ful
15	300	56.0	2712	12	ADL32035	Adl32035 Full leng
16	284	53.0	1872	6	ABQ54422	Abq54422 Human ova
17	264	49.3	853	4	AAQ53901	AAQ53901 Human cDN
18	264	49.3	853	12	ADL30328	Adl30328 3' end of
19	217	40.5	1651	6	ABL90384	AbL90384 Human pol
20	200	37.3	838	4	AAK92364	AAK92364 Human cDN
21	200	37.3	838	12	ADL28791	Adl28791 5' end of
22	180	33.6	1975	4	AAH99626	AAH99626 Human pro
23	162	30.2	494	5	ADL38939	Adl38939 Human ova
24	151	28.2	498	5	ADI67304	Adi67304 Human ova
25	151	28.2	498	5	ADI73702	Adi73702 Human ova
26	151	28.2	516	11	ACN87943	Acn87943 Breast ca
27	144	26.9	798	5	AA566219	AA566219 DNA encod
28	144	26.9	1066	5	AA577186	AA577186 DNA encod
29	144	26.9	1066	8	ACD05897	ACD05897 Novel hum
30	124	23.1	375	5	AAH52158	AAH52158 Human AFP
31	119	22.2	1229	11	ADI31334	Adi31334 Human cDN
32	109	20.3	1975	4	AAH99626	AAH99626 Human pro
33	108	20.1	349	4	AAAL13566	AAAL13566 Human bre
34	108	20.1	756	11	ACN83647	Acn83647 Breast ca
35	87	16.2	264	4	AAAL22435	AAAL22435 Human bre
36	69	12.9	217	10	ACA56004	ACA56004 Human eig
37	69	12.9	217	12	ADI55800	Adi55800 Human pol
38	65	12.1	199	6	ABL37731	AbL37731 Human col
39	61	11.4	1485	3	Az50880	Az50880 Human/She
40	61	11.4	2844	3	AAZ50876	AAZ50876 Sheep GBS
41	61	11.4	2844	3	AAZ50876	AAZ50876 Sheep GBS
42	30	5.6	1485	3	AAZ50881	AAZ50881 Human/She
43	21	3.9	573	6	ABQ97960	AbQ97960 Mouse ES
44	13	2.1	41	4	AAH79239	AAH79239 Human Na
45	11	2.1	36	4	AAH79235	AAH79235 Human Na
46	11	2.1	1549	6	ABL68367	AbL68367 Kidney ca
47	11	2.1	1549	6	ABL68825	AbL68825 Kidney ca
48	11	2.1	1549	12	ADP12787	Adp12787 Reference
49	11	2.1	2528	8	ABX13555	ABX13555 Murine DN
50	11	2.1	2528	10	ADC15493	ADC15493 Mouse DNP
51	11	2.1	3422	4	AAK52406	AAK52406 Human pol
52	11	2.1	3946	8	ABX13553	ABX13553 Human DNP
53	11	2.1	3946	10	ADC15489	ADC15489 Human DNP
54	11	2.1	3982	8	ABX13554	ABX13554 Rat DNPI
55	11	2.1	3982	9	ACF25330	ACF25330 Rat Na-de
56	11	2.1	3982	10	ADC15491	ADC15491 Rat DNPI
57	10	1.9	512	12	ACH67361	ACH67361 Human gen
58	10	1.9	657	6	ABQ69768	ABQ69768 Listeria
59	10	1.9	875	13	ADS51128	AdS51128 Bacterial
60	10	1.9	1161	12	ADP28533	Adp28533 Human sec
61	10	1.9	1425	13	ADS51130	AdS51130 Bacterial
62	10	1.9	2269	10	ADL24752	AdL24752 Intestina
63	10	1.9	2281	2	AAV57909	AAV57909 Human hae
64	10	1.9	2281	6	ABN96956	ABN96956 Gene #345
65	10	1.9	2281	10	ADP90827	Adp90827 Human hep
66	10	1.9	84707	6	ABQ67196_6	ABQ67196_6
67	10	1.9	110000	6	ABQ67196_5	ABQ67196_5
68	10	1.9	110000	6	ABQ69245_26	ABQ69245_26
69	10	1.9	235033	2	AAV57926	AAV57926 Hereditar
70	10	1.9	237326	2	AAV57903	AAV57903 Hereditar
71	9	1.7	28	12	ADJ76658	Adj76658 SLC17A5 r
72	9	1.7	33	4	AAH79237	AAH79237 Human Na
73	9	1.7	234	3	AAA87459	AAa87459 Rat hepat
74	9	1.7	467	11	ADM45044	Adm45044 Insect re
75	9	1.7	580	2	AAZ50684	Aaz50684 Polynucle
76	9	1.7	695	10	ADDI6789	Addi6789 DNA (SeqI
77	9	1.7	699	6	ABK31087	ABk31087 Plant dwa
78	9	1.7	709	10	ADK55499	ADk55499 Plant DNA

C 79	9	1.7	715	10	ADC75987	Adc75987 DNA homol	152	8	1.5	633	6	ABQ47238	Abq47238 Oligonuc1
C 80	9	1.7	764	10	ADD17608	Add17608 DNA (SeqI	153	8	1.5	663	10	ADC30820	Adc30820 Human nov
C 81	9	1.7	764	10	ADK59318	Adk59318 Plant DNA	154	8	1.5	666	13	ADS50268	Ads50268 Bacterial
C 82	9	1.7	764	11	ADM45659	Adm45659 Insect re	155	8	1.5	705	8	ACA32325	Aca32325 Prokaryot
C 83	9	1.7	951	13	ADW43990	Adt43990 Bacterial	C 156	8	1.5	711	4	AAH88245	Aah88245 CNS disor
C 84	9	1.7	1373	1	AAN80941	Aan80941 Encodes V	C 157	8	1.5	729	8	ACA35742	Aca35742 Prokaryot
C 85	9	1.7	1700	10	ADB59088	Adb59088 Toxicity-	C 158	8	1.5	747	13	ADSe62116	Adse62116 Bacterial
C 86	9	1.7	1700	10	ADB53647	Adb53647 Primary r	159	8	1.5	760	5	AAH64846	Aah64846 Human sec
C 87	9	1.7	1700	10	ABT42420	Abt42420 Toxicity	160	8	1.5	762	5	AAH64958	Aah64958 Human sec
C 88	9	1.7	1700	12	ADP72853	Adp72853 Renal tox	C 161	8	1.5	777	11	ABD00520	Abd00520 Klebsiell
C 89	9	1.7	2031	4	ABL26653	Ab126653 Drosophil	162	8	1.5	785	3	AAF22331	Aaf22331 Human sec
C 90	9	1.7	2316	10	ADB59023	Adb59023 Toxicity-	163	8	1.5	807	11	ABD06455	Abd06455 Pseudomon
C 91	9	1.7	2702	4	ABL25006	Ab125006 Drosophil	164	8	1.5	828	6	ABQ31613	Abq31613 Oligonuc1
C 92	9	1.7	6028	4	ABL03360	Ab103360 Drosophil	C 165	8	1.5	828	6	ABQ31612	Abq31612 Oligonuc1
C 93	9	1.7	7125	4	ABL26652	Ab126652 Drosophil	C 166	8	1.5	834	12	ADL03259	Adl03259 DNA encod
C 94	9	1.7	51961	10	ADC20666	Adc20666 Human sec	167	8	1.5	844	13	ADQ83727	Adq83727 Human tum
C 95	9	1.7	51961	10	ABT16905	Abt16905 Human sec	C 168	8	1.5	874	6	ABQ33994	Abq33994 Oligonuc1
C 96	9	1.7	51961	10	ABE67488	Abx67488 Human sec	169	8	1.5	874	6	ABQ33995	Abq33995 Oligonuc1
C 97	9	1.7	247544	12	ADQ59419	Adq59419 Human can	170	8	1.5	887	6	AAI67947	Aai67947 Human CCR
C 98	9	1.7	252907	13	ABD32694	Abd32694 Human can	171	8	1.5	896	4	AAK83809	Aak83809 Human imm
C 99	8	1.5	60	6	ABN47103	Abn47103 Human spl	172	8	1.5	896	4	AAK83808	Aak83808 Human imm
C 100	8	1.5	144	6	ABQ90618	Abq90618 M. capsul	173	8	1.5	921	4	AAK71739	Aak71739 Human imm
C 101	8	1.5	168	13	ADS04142	Ads04142 Staphyloc	174	8	1.5	926	3	AACT77321	Aac777321 Human ORF
C 102	8	1.5	289	5	ABA44613	Abaa44613 Human ner	175	8	1.5	951	3	AACT76669	Aac76669 Human ORF
C 103	8	1.5	318	2	AAT07025	Aat07025 Immunogen	C 176	8	1.5	999	13	ADS45852	Ads45852 Bacterial
C 104	8	1.5	321	13	ADRe63777	Adr63777 Cotton cD	177	8	1.5	1011	5	AAS87919	Aas87919 DNA encod
C 105	8	1.5	330	11	ABD04894	Abd04894 Pseudomon	178	8	1.5	1011	5	AAS85673	Aas85673 DNA encod
C 106	8	1.5	331	4	AAK90500	Aak90500 Human dig	C 179	8	1.5	1057	3	AAF13375	Aaf13375 Aspergill
C 107	8	1.5	341	5	ABR414397	Abra414397 Human ner	180	8	1.5	1062	4	AAH52620	Aah52620 S. epider
C 108	8	1.5	365	5	ABAI1025	Abai1025 Human ner	C 181	8	1.5	1085	4	AAD11110	Aad11110 Human sma
C 109	8	1.5	372	4	AAI10274	Aai10274 Probe #20	C 182	8	1.5	1085	8	ABX76387	Abx76387 Lung canc
C 110	8	1.5	372	4	ABAI51911	Abai51911 Human foe	C 183	8	1.5	1085	8	ABX76303	Abx76303 Lung canc
C 111	8	1.5	372	4	AAI31521	Aai31521 Probe #20	C 184	8	1.5	1085	11	ADN38995	Adn38995 Cancer/an
C 112	8	1.5	372	4	ABA21729	Abai21729 Probe #19	C 185	8	1.5	1087	4	AAK52388	Aak52388 Human pol
C 113	8	1.5	372	4	AAK25646	Aak25646 Human bon	C 186	8	1.5	1103	12	ADO02848	Ado02848 Corn orth
C 114	8	1.5	372	4	AAK00206	Aak00206 Human bra	C 187	8	1.5	1116	4	AAK53268	Aak53268 Human pol
C 115	8	1.5	372	4	ABS25225	Abss25225 Human liv	C 188	8	1.5	1119	10	ADB80216	Adb80216 Mycobacte
C 116	8	1.5	372	5	AAI00211	Aai00211 Probe #20	C 189	8	1.5	1126	4	AAK52284	Aak52284 Human pol
C 117	8	1.5	372	6	ABS00217	Abso00217 Human gen	C 190	8	1.5	1140	2	AAV41733	Aav41733 Codon-opt
C 118	8	1.5	383	10	AD033833	Ad033833 Mouse mit	C 191	8	1.5	1181	10	AA063195	Aad63195 Human DNA
C 119	8	1.5	385	6	ABN18111	Abn18111 Human ORF	C 192	8	1.5	1181	10	AA063159	Aad63159 Human SRV
C 120	8	1.5	390	13	AB032839	Ab032839 Human can	C 193	8	1.5	1181	10	AA062795	Aad62795 Human KIA
C 121	8	1.5	395	6	AAS61666	Aas61666 Lung smal	C 194	8	1.5	1181	10	AA062760	Aad62760 Human SRV
C 122	8	1.5	429	8	ABX37053	Abx37053 Bovine ES	C 195	8	1.5	1181	11	ADP88255	Adp88255 Lung canc
C 123	8	1.5	430	4	AAI90901	Aai90901 Human pol	C 196	8	1.5	1181	11	ADP88291	Adp88291 Human dia
C 124	8	1.5	438	8	ABX44619	Abx44619 Bovine BS	C 197	8	1.5	1191	13	ADT45352	Adt45352 Bacterial
C 125	8	1.5	441	12	ADN12665	Adni12665 Human pro	C 198	8	1.5	1197	5	AA083420	Aas83420 DNA encod
C 126	8	1.5	499	10	ADFe1849	Adfe1849 Human ald	C 199	8	1.5	1197	5	AA083419	Aas8419 DNA encod
C 127	8	1.5	511	6	ABQ27978	Abq27978 Oligonuc1	C 200	8	1.5	1212	11	ABD06553	Abd06553 Pseudomon
C 128	8	1.5	511	6	ABQ27979	Abq27979 Oligonuc1	201	8	1.5	1367	4	AAI61282	Aai61282 Human pol
C 129	8	1.5	536	10	AD001461	Ad001461 Rat TCHI1	202	8	1.5	1395	10	ADC92228	Adc92228 E. faeciu
C 130	8	1.5	552	4	AAH12037	Aah12037 Human CDN	203	8	1.5	1440	13	ADT48613	Adt48613 Bacterial
C 131	8	1.5	553	12	ADQ32266	Adq32266 Human aut	C 204	8	1.5	1473	11	ABD11075	Abd11075 Pseudomon
C 132	8	1.5	554	4	AAI18343	Aai18343 Probe #82	C 205	8	1.5	1501	4	AAK53372	Aak53372 Human pol
C 133	8	1.5	554	4	ABA63344	Abag63344 Human foe	206	8	1.5	1506	11	ABD06421	Abd06421 Pseudomon
C 134	8	1.5	554	4	AAI43458	Aai43458 Probe #12	207	8	1.5	1520	6	ABL16340	Aah16340 Human CDN
C 135	8	1.5	554	4	ABA30548	Abag30548 Probe #90	208	8	1.5	1530	6	ABLS52216	Ab152216 Human pho
C 136	8	1.5	554	4	AAK37586	Aak37586 Human bon	209	8	1.5	1530	6	ABLS52276	Ab152276 Human pho
C 137	8	1.5	554	4	AAK11885	Aak11885 Human bra	210	8	1.5	1575	4	ABL28651	Ab128651 Drosophil
C 138	8	1.5	554	4	ABS37247	Abss37247 Human liv	211	8	1.5	1584	5	AA072837	Aas72837 DNA encod
C 139	8	1.5	554	6	ABS11572	Abss11572 Human gen	212	8	1.5	1602	6	ABZ13052	Abz13052 Arabidops
C 140	8	1.5	558	4	AAI17420	Aai17420 Probe #73	213	8	1.5	1641	4	ABL18113	Ab118113 Drosophil
C 141	8	1.5	558	4	ABA62344	Abag62344 Human foe	C 214	8	1.5	1653	9	ADB07811	Adb07811 Alloiococ
C 142	8	1.5	558	4	AAI42322	Aai42322 Probe #11	C 215	8	1.5	1653	9	ADB07809	Adb07809 Alloiococ
C 143	8	1.5	558	4	ABA29685	Abag29685 Probe #81	C 216	8	1.5	1653	12	ADU27080	Adj27080 Alloiococ
C 144	8	1.5	558	4	AAK36564	Aak36564 Human bon	C 217	8	1.5	1701	10	ADJ95071	Adj95071 Novel NOV
C 145	8	1.5	558	4	AAK10678	Aak10678 Human bra	C 218	8	1.5	1716	5	AAI59496	Aai59496 Human pol
C 146	8	1.5	558	4	ABS36218	Abss36218 Human liv	C 219	8	1.5	1716	5	AAI564547	Aas64547 DNA encod
C 147	8	1.5	558	6	ABS10561	Abss10561 Human gen	220	8	1.5	1761	3	AACT74309	Aac74309 Human sec
C 148	8	1.5	566	5	AAK92659	Aak92659 DNA encod	221	8	1.5	1767	10	ADD01393	Add01393 Human TCH
C 149	8	1.5	587	4	AAK37568	Aak37568 Human bon	222	8	1.5	1786	4	ABL07417	Ab107417 Drosophil
C 150	8	1.5	587	4	AAK11857	Aak11857 Human bra	223	8	1.5	1798	10	ADB75409	Adb75409 Prostate
C 151	8	1.5	633	6	ABQ47239	Abq47239 Oligonuc1	224	8	1.5	1798	12	ADM67105	Adm67105 Human hom

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:42:45 ; Search time 6923.47 Seconds

(without alignments)  
3806.273 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGAMTPRPVQPARPGF.....LFAKGEVQNALNDHGHHRH 536

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Word size: 1

Total number of hits satisfying chosen parameters: 9408497

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh  
-Q=/cgn2 1/USPTO spool/US09776865/runat 08072005 175612 23689/app query.fasta 1.1358  
-DB=GenEmbl -QFMT=fastcap -SUPFIX=oligo.rge -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0  
-UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi -LIST=1000  
-DOCALIGN=200 -THR SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc  
-NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865 @CGN 1 1 8225 @runat 08072005 175612 23689 -NCPU=6 -ICPU=3  
-NO MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

GenEmbl:\*

1: gb.ba:\*  
2: gb.htg:\*  
3: gb.in:\*  
4: gb.om:\*  
5: gb.ov:\*  
6: gb.pat:\*  
7: gb.ph:\*  
8: gb.pl:\*  
9: gb.pr:\*  
10: gb.ro:\*  
11: gb.sts:\*  
12: gb.by:\*  
13: gb.un:\*  
14: gb.vi:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	536	100.0	2930	6	BD248129
2	536	100.0	2930	6	AX207624
3	536	100.0	2930	9	AF244577
4	529	99.7	2512	6	AX138494

5	529	98.7	2512	9	BSA387747
6	529	98.7	3362	6	CO412026
7	522	97.4	3292	9	BC020961
8	522	97.4	3329	6	CQ776623
9	514	95.9	2602	6	BD248125
10	300	56.0	2712	6	CQ783928
11	300	56.0	2712	6	BD127905
12	300	56.0	2712	9	AK075320
13	264	49.3	853	6	CQ782221
14	264	49.3	853	6	BD126930
15	200	37.3	838	6	CQ780684
16	200	37.3	838	6	BD125393
17	169	31.5	1587	9	AK025880
18	162	30.2	494	6	CO405758
19	151	28.2	498	6	CQ392975
20	151	28.2	498	6	CQ399373
21	124	23.1	375	6	AX118967
22	119	22.2	1229	6	AR380115
23	108	20.1	349	6	CO420997
24	94	17.5	752	6	CQ720578
25	92	17.2	2006	9	AK028921
26	87	16.2	264	6	CO429871
27	78	14.6	113202	9	HSJ397H23
28	78	14.6	149597	2	AC034271
29	69	12.9	217	6	AR270039
30	66	12.3	251	11	BV198823
31	66	12.3	185712	2	AC150017
32	65	12.1	199	6	AX341073
33	65	12.1	149597	2	AC034271
34	65	12.1	163577	9	AL590428
35	61	11.4	1485	6	BD248130
36	61	11.4	2844	4	AF244578
37	61	11.4	2844	6	BD248126
38	61	11.4	2844	6	AX207626
39	56	10.4	194653	2	AC150717
40	54	10.1	157749	2	AC025535
41	51	9.5	187017	2	AC150839
42	45	8.4	56641	2	AL138833
43	43	8.0	233392	2	AC150504
44	42	7.8	228433	10	AC097023
45	37	6.9	187017	2	AC150839
46	37	6.9	188302	2	AC150022
47	35	6.5	3121	5	AJ719840
48	34	6.3	3152	10	BC058785
49	32	6.0	144738	2	AC112668
50	30	5.6	1485	6	BD248131
51	27	5.0	137509	5	BX323884
52	27	5.0	228860	2	CR354610
53	11	2.1	838	5	AY559247
54	11	2.1	1299	6	CQ725168
55	11	2.1	1504	6	CQ717465
56	11	2.1	1549	6	AX336195
57	11	2.1	1549	6	AX336653
58	11	2.1	1549	9	HSNAP11
59	11	2.1	1720	3	AK116431
60	11	2.1	1794	9	HOMAF14
61	11	2.1	1963	3	AK114957
62	11	2.1	2019	3	AK114801
63	11	2.1	2019	9	BC069629
64	11	2.1	2020	9	BC069640
65	11	2.1	2020	9	BC069646
66	11	2.1	2528	6	AX709538
67	11	2.1	2528	6	AX743498
68	11	2.1	2528	10	AF324864
69	11	2.1	3728	10	BC038375
70	11	2.1	3946	6	AX709532
71	11	2.1	3946	6	AX743492
72	11	2.1	3946	9	AB032435
73	11	2.1	3982	6	AX700122
74	11	2.1	3982	6	AX709534
75	11	2.1	3982	6	AX743494
76	11	2.1	3982	10	AF271235
77	11	2.1	64356	2	AC090586

AJ387747	Homo sapi
CO412026	Sequence
BC020961	Homo sapi
CQ776623	Sequence
BD248125	GBS toxin
CQ783928	Sequence
BD127905	Primer fo
AK075320	Homo sapi
CQ782221	Sequence
BD126930	Primer fo
CQ780684	Sequence
BD125393	Primer fo
AK025880	Homo sapi
CO405758	Sequence
CQ392975	Sequence
CQ399373	Sequence
AX118967	Sequence
AR380115	Sequence
CO420997	Sequence
CQ720578	Sequence
AK026921	Homo sapi
CO429871	Sequence
AL121972	Human DNA
AC034271	Homo sapi
AR270039	Sequence
BV198823	sqm19895
AC150017	Papio anu
AX341073	Sequence
AC034271	Homo sapi
AL590428	Human DNA
BD248130	GBS toxin
AF244578	Ovis arie
BD248126	GBS toxin
AX207626	Sequence
AC150717	Callithri
AC025535	Homo sapi
AC150839	Papio anu
AL138833	Homo sapi
AC150504	Bos tauru
AC097023	Rattus no
AC150839	Papio anu
AC150022	Papio anu
AJ719840	Gallus ga
BC058785	Mus muscu
AC112668	Mus muscu
BD248131	GBS toxin
BX323884	Zebrafish
CR354610	Danio rer
AY559247	Gallus ga
CQ725168	Sequence
CQ717465	Sequence
AX336195	Sequence
AX336653	Sequence
X71355	H. sapiens m
AK116431	Ciona int
D28532	Human mRNA
AK114957	Ciona int
AK114801	Ciona int
BC069629	Homo sapi
BC069640	Homo sapi
BC069646	Homo sapi
AX709538	Sequence
AX743498	Sequence
AF324864	Mus muscu
BC038375	Mus muscu
AX709532	Sequence
AX743492	Sequence
AB032435	Homo sapi
AX700122	Sequence
AX709534	Sequence
AX743494	Sequence
AF271235	Rattus no
AC090586	Homo sapi

c	78	11	2.1	123847	2	AC118880	AC118880 Rattus no	c	151	9	1.7	67671	2	AC102113	AC102113 Mus muscu
	79	11	2.1	143063	9	AC040936	AC040936 Homo sapi		152	9	1.7	70714	2	AC101499	AC101499 Mus muscu
c	80	11	2.1	146473	9	AC119499	AC119499 Rattus no		153	9	1.7	86419	3	AC004345	AC004345 Drosophi
	81	11	2.1	146515	9	AC104009	AC104009 Homo sapi		154	9	1.7	90707	8	AC027032	AC027032 Arabidops
	82	11	2.1	201957	2	AC113306	AC113306 Mus muscu		155	9	1.7	96267	8	AC024226	AC024226 Genomic S
c	83	11	2.1	215841	2	AC016904	AC016904 Homo sapi		156	9	1.7	101601	9	AC079034	AC079034 Homo sapi
	84	11	2.1	243860	2	AC114710	AC114710 Rattus no		157	9	1.7	107933	5	BX276180	BX276180 Zebrafish
c	85	11	2.1	323443	2	AC145086	AC145086 Mus muscu		158	9	1.7	107938	9	AC104084	AC104084 Homo sapi
	86	10	1.9	448	9	F362489S08	AF362500 Homo sapi		159	9	1.7	110000	2	AC120236	Continuation (2 of
c	87	10	1.9	657	6	AX415590	AX415590 Sequence		160	9	1.7	110000	2	AF006501_08	Continuation (9 of
	88	10	1.9	1874	10	BC018306	BC018306 Mus muscu		161	9	1.7	110000	2	AF006501_09	Continuation (10 o
	89	10	1.9	2266	6	AR036570	AR036570 Sequence		162	9	1.7	110482	2	AC018326	AC018326 Drosophi
	90	10	1.9	2266	6	BD084119	BD084119 Polymorph		163	9	1.7	110900	9	HSJ392M17	AL049843 Human DNA
	91	10	1.9	2270	6	CQ715838	CQ715838 Sequence		164	9	1.7	115602	9	HS1118D24	AL031276 Human DNA
	92	10	1.9	2281	6	AX410807	AX410807 Sequence		165	9	1.7	115602	2	AP003812	AP003812 Oryza sat
	93	10	1.9	2281	8	HSU90544	U90544 Human sodiu		166	9	1.7	119199	2	AP003812	AP003812 Oryza sat
	94	10	1.9	6359	8	YSCV164A	M88172 Saccharomyc		167	9	1.7	121242	9	AC126564	AC126564 Homo sapi
	95	10	1.9	19371	3	CEK1069	Z36282 Caenorhabdi		168	9	1.7	123477	8	AC112209	AC112209 Oryza sat
	96	10	1.9	28272	3	CEK1069	Z49055 Caenorhabdi		169	9	1.7	127338	8	AC134048	AC134048 Oryza sat
	97	10	1.9	29987	8	SCB156	Z49260 S.cerevisia		170	9	1.7	129732	2	AC140867	AC140867 Homo sapi
c	98	10	1.9	80091	9	AC094088	AC094088 Homo sapi		171	9	1.7	132703	8	CNS08CBT	AL928756 Oryza sat
	99	10	1.9	83412	2	AC133611	AC133611 Rattus no		172	9	1.7	132703	2	OSJN00037	AL928859 Mouse DNA
	100	10	1.9	84707	6	AX411037	AX411037 Sequence		173	9	1.7	137218	2	OSJN00037	AL928859 Mouse DNA
	101	10	1.9	136646	9	AL138726	AL138726 Human DNA		174	9	1.7	137870	8	AP004344	AP004344 Oryza sat
c	102	10	1.9	148975	2	AC012145	AC012145 Homo sapi		175	9	1.7	143432	2	AC115852	AC115852 Mus muscu
	103	10	1.9	167098	2	AC023952	AC023952 Homo sapi		176	9	1.7	150976	8	AP003442	AP003442 Oryza sat
	104	10	1.9	178044	2	AC121663	AC121663 Rattus no		177	9	1.7	151448	2	AC074261	AC074261 Homo sapi
	105	10	1.9	183698	10	AL606464	AL606464 Mouse DNA		178	9	1.7	153904	2	BX510650	BX510650 Homo sapi
c	106	10	1.9	186062	2	AL590388	AL590388 Mouse DNA		179	9	1.7	155643	8	AP000391	AP000391 Oryza sat
	107	10	1.9	209876	2	AL627315	AL627315 Mus muscu		180	9	1.7	155815	2	AC018774	AC018774 Homo sapi
	108	10	1.9	209876	2	AL627315	AL627315 Mus muscu		181	9	1.7	157848	8	AP005744	AP005744 Oryza sat
	109	10	1.9	235033	6	BD084121	BD084121 Polymorph		182	9	1.7	159810	8	AP006266	AP006266 Oryza sat
	110	10	1.9	237326	6	BD084122	BD084122 Polymorph		183	9	1.7	161841	2	AC117653	AC117653 Mus muscu
	111	10	1.9	240774	2	AC130391	AC130391 Rattus no		184	9	1.7	163627	2	AC135031	AC135031 Rattus no
c	112	10	1.9	246240	6	AR036572	AR036572 Sequence		185	9	1.7	164518	2	AC122778	AC122778 Mus muscu
	113	10	1.9	246240	6	AR036573	AR036573 Sequence		186	9	1.7	167663	2	AC093854	AC093854 Homo sapi
c	114	10	1.9	246240	6	AR036574	AR036574 Sequence		187	9	1.7	168637	2	AC018963	AC018963 Homo sapi
	115	10	1.9	246282	9	HSU91328	U91328 Human hered		188	9	1.7	168721	10	AC125085	AC125085 Mus muscu
	116	10	1.9	305050	1	AL596173	AL596173 Listeria		189	9	1.7	173135	2	AC111740	AC111740 Rattus no
c	117	10	1.9	349980	6	AX417036	AX417036 Sequence		190	9	1.7	173373	3	AC099016	AC099016 Drosophi
	118	10	1.9	349980	6	AX417048	AX417048 Sequence		191	9	1.7	173417	10	AL607143	AL607143 Mouse DNA
c	119	9	1.7	28	6	CQ778224	CQ778224 Sequence		192	9	1.7	173422	3	AC007467	AC007467 Drosophi
c	120	9	1.7	464	11	G52591	G52591 SHGC-81575		193	9	1.7	176082	3	AC007144	AC007144 Drosophi
	121	9	1.7	495	10	F361762S09	AF361773 Mus muscu		194	9	1.7	176733	9	AC092850	AC092850 Homo sapi
c	122	9	1.7	513	8	AF318651	AF318651 Salsolea z		195	9	1.7	178091	2	AC110894	AC110894 Mus muscu
c	123	9	1.7	699	6	AX364494	AX364494 Sequence		196	9	1.7	178471	5	AC093583	AC093583 Homo sapi
c	124	9	1.7	880	8	AY275680	AY275680 Hevea bra		197	9	1.7	180201	5	BX548064	BX548064 Zebrafish
c	125	9	1.7	960	5	CR733177	CR733177 Gallus ga		198	9	1.7	180718	9	AL596087	AL596087 Human DNA
	126	9	1.7	1432	10	AY103171	AY103171 Rattus no		199	9	1.7	182501	2	AC011221	AC011221 Homo sapi
	127	9	1.7	1684	10	BC078710	BC078710 Rattus no		200	9	1.7	184427	14	EHVU20824	U20824 Equine herp
	128	9	1.7	1700	6	AX827782	AX827782 Sequence		201	9	1.7	184798	2	AC139981	AC139981 Rattus no
	129	9	1.7	1700	10	RNU28504	U28504 Rattus norv		202	9	1.7	184866	10	AL611934	AL611934 Mouse DNA
	130	9	1.7	1748	10	BC078748	BC078748 Rattus no		203	9	1.7	186047	9	AC074257	AC074257 Homo sapi
	131	9	1.7	1885	10	MNPF1CT	X77241 M.musculus		204	9	1.7	186208	10	AL626778	AL626778 Mouse DNA
	132	9	1.7	2004	6	BC013445	BC013445 Mus muscu		205	9	1.7	187214	2	AC121384	AC121384 Rattus no
	133	9	1.7	2031	6	CQ609462	CQ609462 Sequence		206	9	1.7	187877	2	AC023251	AC023251 Homo sapi
	134	9	1.7	2229	10	AB025224	AB025224 Rattus no		207	9	1.7	189155	2	AC143324	AC143324 Homo sapi
	135	9	1.7	2316	10	AB025223	AB025223 Rattus no		208	9	1.7	189363	9	AC126603	AC126603 Homo sapi
c	136	9	1.7	2700	14	AF238232	AF238232 Bovine ad		209	9	1.7	189582	2	AC142534	AC142534 Homo sapi
	137	9	1.7	2702	6	CQ606992	CQ606992 Sequence		210	9	1.7	189908	2	AC141592	AC141592 Homo sapi
c	138	9	1.7	3021	3	AY119484	AY119484 Drosophi		211	9	1.7	190198	2	BX571941	BX571941 Danio rer
c	139	9	1.7	5000	14	AF032994	AF032994 Trichoplu		212	9	1.7	191919	9	AC016770	AC016770 Homo sapi
c	140	9	1.7	5111	10	AF308433S1	AF308433 Mus muscu		213	9	1.7	192358	3	AC099028	AC099028 Drosophi
c	141	9	1.7	6028	6	CQ574523	CQ574523 Sequence		214	9	1.7	194106	10	AC129325	AC129325 Mus muscu
	142	9	1.7	7125	6	CQ609461	CQ609461 Sequence		215	9	1.7	196465	2	AC143322	AC143322 Homo sapi
	143	9	1.7	11172	10	MMU13755	U19755 Mus domesti		216	9	1.7	196560	2	AC132652	AC132652 Rattus no
	144	9	1.7	14433	1	AE001203	AE001203 Treponema		217	9	1.7	200389	9	AC134678	AC134678 Homo sapi
	145	9	1.7	26206	10	MMU320524	AJ320524 Mus muscu		218	9	1.7	201376	2	AX470152	AX470152 Mus muscu
c	146	9	1.7	43219	2	AC100163	AC100163 Mus muscu		219	9	1.7	201684	2	AC108431	AC108431 Mus muscu
c	147	9	1.7	54656	2	AC120611	AC120611 Rattus no		220	9	1.7	201805	10	AL606466	AL606466 Mouse DNA
	148	9	1.7	5197	2	AC017529	AC017529 Drosophi		221	9	1.7	203668	2	CO844411	CO844411 Mus muscu
	149	9	1.7	62172	9	AC140118	AC140118 Homo sapi		222	9	1.7	203961	9	AC011374	AC011374 Homo sapi
	150	9	1.7	62676	2	AC072047	AC072047 Arabidops		223	9	1.7	208661	10	AC072048	AC072048 Mus muscu
											1.7	211013	2	AC122380	AC122380 Mus muscu

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model.

Run on: July 9, 2005, 16:46:21 ; Search time 4589.43 Seconds

(without alignments)  
4105.478 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPDSGEGSDRT.....LFAKGEVQNAISDHQGRN 495

Scoring table:

	OLIGO	Xgapop 60.0	Xgapext 60.0
		Ygapop 60.0	Ygapext 60.0
		Fgapop 6.0	Fgapext 7.0
		Delop 6.0	Delext 7.0

Searched: 34239544 seqs, 19032134700 residues

Word size: 1

Total number of hits satisfying chosen parameters: 68477535

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh  
-Q=/cgn2.1/USPTO\_spool/US09776865/runat\_08072005\_175612\_23695/app\_query.fasta\_1.1358  
-DB=EST -QFMT=fastap -SUFFIX=oligo.rst -MINMATCH=0.1 -LCOOPCL=0 -LCOOPEXT=0  
-UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi -LIST=1000  
-LOCALIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc  
-NORM=ext -HEARSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865 @CGN 1 1 6461 @runat\_08072005\_175612\_23695 -NCPU=6 -ICPU=3  
-MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : EST:  
1: gb\_est1:  
2: gb\_est2:  
3: gb\_hic:  
4: gb\_est3:  
5: gb\_est4:  
6: gb\_est5:  
7: gb\_est6:  
8: gb\_gsa1:  
9: gb\_gsa2:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	168	33.9	721	7	CK833565 4057467 B
2	168	33.9	737	7	CK833737 4057771 B
3	162	32.7	700	7	CN786597 4120614 B
4	94	19.0	758	6	CB166094 XKE503014
5	64	12.9	947	7	C0579484 ILLUMINIGEN
6	61	12.3	432	1	AA258513
7	61	12.3	537	6	CB158910 K-EST0218
8	61	12.3	537	6	CB158929 K-EST0219
9	61	12.3	570	5	BP274537 BP274537

10	61	12.3	581	5	BP252687
11	61	12.3	581	5	BP297030
12	61	12.3	605	5	EX479639
13	61	12.3	626	2	BF676817
14	61	12.3	630	6	CB138761
15	61	12.3	700	2	BE869819
16	61	12.3	913	5	EX348297
17	61	12.3	3189	3	CF618872
18	57	11.5	633	4	BI817031
19	50	10.1	848	9	CR812709
20	44	8.9	949	7	CF412264
21	43	8.7	901	6	CD106410
22	40	8.1	817	9	CR810037
23	38	7.7	400	6	CB782262
24	36	7.3	321	2	AW531337
25	35	7.1	301	7	NJ1254
26	35	7.1	367	7	H63685
27	35	7.1	770	5	EX674896
28	34	6.9	649	1	AJ734277
29	34	6.9	773	1	AJ734267
30	33	6.7	428	6	CB794359
31	33	6.7	429	2	BF563945
32	32	6.5	554	5	BP220609
33	32	6.5	582	5	BP302998
34	32	6.5	616	5	BP238694
35	32	6.5	663	7	CV023522
36	32	6.5	708	7	CR763802
37	32	6.5	736	4	BI860521
38	32	6.5	740	6	CB317739
39	32	6.5	754	4	BI907284
40	32	6.5	893	4	BG541099
41	32	6.5	1038	5	EX439809
42	32	6.5	1051	1	AL550137
43	32	6.5	1059	5	EX425026
44	32	6.5	3202	3	AK029102
45	31	6.3	611	1	AJ734276
46	30	6.1	429	8	BZ877289
47	30	6.1	571	5	BP221449
48	29	5.9	348	9	CG498267
49	29	5.9	436	1	BY651956
50	29	5.9	566	1	AU279688
51	29	5.9	579	5	BP344739
52	29	5.9	580	5	BP285113
53	29	5.9	581	5	BP281761
54	29	5.9	581	5	BP285186
55	29	5.9	581	5	BP298092
56	29	5.9	582	5	BP287215
57	29	5.9	582	5	BP287958
58	29	5.9	582	5	BP288187
59	29	5.9	582	5	BP367879
60	29	5.9	583	4	BM838178
61	29	5.9	584	5	BP288606
62	29	5.9	602	5	BP349262
63	28	5.7	279	7	CR462700
64	28	5.7	495	6	CB129218
65	28	5.7	518	1	AA833297
66	28	5.7	658	4	BI851890
67	28	5.7	1241	5	BU504522
68	27	5.5	498	4	BJ699380
69	27	5.5	509	4	BJ696296
70	27	5.5	618	4	BJ696202
71	27	5.5	620	4	BJ699327
72	27	5.5	776	5	EX882862
73	25	5.1	506	6	CB161355
74	25	5.1	689	4	BQ400588
75	25	5.1	729	4	BF971208
76	25	5.1	787	4	BI98416
77	24	4.8	524	5	BY478871
78	24	4.8	599	4	BU520485
79	24	4.8	609	4	BJ692199
80	23	4.6	464	6	CB365128
81	23	4.6	555	7	CK687033
82	23	4.6	620	7	CF417013

BP252687	BP252687
BP297030	BP297030
EX479639	EX479639
BF676817	BF676817
CB138761	CB138761
BE869819	BE869819
EX348297	EX348297
CF618872	CF618872
BI817031	BI817031
CR812709	CR812709
CF412264	CF412264
CD106410	CD106410
CR810037	CR810037
CB782262	CB782262
AW531337	AW531337
NJ1254	NJ1254
H63685	H63685
EX674896	EX674896
AJ734277	AJ734277
AJ734267	AJ734267
CB794359	CB794359
BF563945	BF563945
BP220609	BP220609
BP302998	BP302998
BP238694	BP238694
CV023522	CV023522
CR763802	CR763802
BI860521	BI860521
CB317739	CB317739
BI907284	BI907284
BG541099	BG541099
EX439809	EX439809
AL550137	AL550137
EX425026	EX425026
AK029102	AK029102
AJ734276	AJ734276
BZ877289	BZ877289
BP221449	BP221449
CG498267	CG498267
BY651956	BY651956
AU279688	AU279688
BP344739	BP344739
BP285113	BP285113
BP281761	BP281761
BP285186	BP285186
BP298092	BP298092
BP287215	BP287215
BP287958	BP287958
BP288187	BP288187
BP367879	BP367879
BM838178	BM838178
BP288606	BP288606
BP349262	BP349262
CR462700	CR462700
CB129218	CB129218
AA833297	AA833297
BI851890	BI851890
BU504522	BU504522
BJ699380	BJ699380
BJ696296	BJ696296
BJ696202	BJ696202
BJ699327	BJ699327
EX882862	EX882862
CB161355	CB161355
BQ400588	BQ400588
BF971208	BF971208
BI98416	BI98416
BY478871	BY478871
BU520485	BU520485
BJ692199	BJ692199
CB365128	CB365128
CK687033	CK687033
CF417013	CF417013

83	23	4.6	686	7	CK690892	ZF101-P00	156	14	2.8	647	7	CR427276	CR427276
84	23	4.6	731	7	CK696626	ZF101-P00	157	14	2.8	721	4	BJ060500	BJ060500
85	23	4.6	784	7	CK024678	AGENCOURT	158	14	2.8	770	7	CF289959	AGENCOURT
86	23	4.6	882	7	CN178455	AGENCOURT	159	14	2.8	861	5	BU907838	AGENCOURT
87	22	4.4	690	1	AJ447666	AJ447666	160	14	2.8	885	5	BQ737435	AGENCOURT
88	22	4.4	738	1	AJ455947	AJ455947	161	14	2.8	896	2	BF539146	AGENCOURT
89	22	4.4	810	1	AJ455169	AJ455169	c 162	14	2.8	885	2	BF539146	602053009
90	21	4.2	465	5	BQ322417	RC5-CS002	163	13	2.6	239	5	CC295340	CH261-82B
91	21	4.2	610	1	AL792191	AL792191	164	13	2.6	216	8	BY179630	BY179630
92	21	4.2	772	2	BF123545	601759862	165	13	2.6	288	7	CR757530	KDF2P469C
93	21	4.2	2674	3	AK014522	Mus muscu	c 166	13	2.6	596	6	CS0505018	ssa1p1nb5
94	20	4.0	334	1	AJ734268	AJ734268	167	12	2.4	331	5	BY317931	BY317931
95	20	4.0	445	2	BE375421	601230485	c 168	12	2.4	394	8	AQ224962	HS 2009 B
96	20	4.0	587	9	CR035573	Forward s	c 169	12	2.4	486	8	B80770	AK224962
97	20	4.0	589	5	BU127798	603112964	c 170	12	2.4	552	4	BI355213	GM29944.5
98	20	4.0	618	7	CF170114	B0822G02-	171	12	2.4	943	9	CNS0352N	BP444752
99	20	4.0	645	2	BE537525	BE537525	172	12	2.4	1007	4	BM804862	Tetraodon
100	20	4.0	711	4	BI697765	603346858	173	12	2.4	1073	2	BF537689	AGENCOURT
101	20	4.0	730	6	CA327442	UI-N-FY0-	174	12	2.4	3270	3	AK050277	602054577
102	20	4.0	785	7	CF285351	AGENCOURT	175	12	2.4	3902	3	AK050184	Mus muscu
103	20	4.0	791	7	CV110989	AGENCOURT	176	12	2.4	4630	3	AK040717	Mus muscu
104	20	4.0	801	4	BI661062	603304362	177	11	2.2	228	6	CD730851	Mus muscu
105	20	4.0	813	7	CF618610	AGENCOURT	c 178	11	2.2	387	8	AZ772115	4039842.1
106	20	4.0	831	3	AK087395	Mus muscu	179	11	2.2	472	5	BY240979	1M0574G13
107	19	3.8	470	5	BQ345391	MR4-NT014	c 180	11	2.2	485	6	CB727195	BY240979
108	18	3.6	311	5	BY190277	BY190277	c 181	11	2.2	548	5	BQ366104	AMGNNUC:N
109	18	3.6	345	5	BY138011	BY138011	182	11	2.2	581	5	BP361755	QV4-GN012
110	18	3.6	349	6	BY793266	BY793266	183	11	2.2	596	6	CB583897	BP361755
111	18	3.6	355	5	BY196504	BY196504	184	11	2.2	582	5	BP309703	BP309703
112	18	3.6	423	5	BY274305	BY274305	185	11	2.2	605	7	CF534235	AMGNNUC:C
113	18	3.6	426	5	BY284055	BY284055	186	11	2.2	634	5	BU611855	UI-M-FY0-
114	18	3.6	427	5	BY278620	BY278620	187	11	2.2	635	6	BY723745	UI-M-FY0-
115	18	3.6	436	5	BY246932	BY246932	188	11	2.2	645	9	DR48D4T	BY723745
116	18	3.6	440	5	BY031138	BY031138	189	11	2.2	648	5	BM331471	DAUO Ter
117	18	3.6	447	6	CB747168	AMGNNUC:C	190	11	2.2	649	5	BM328845	BM331471
118	18	3.6	457	5	BY241444	BY241444	191	11	2.2	652	7	CF735479	BM328845
119	18	3.6	471	5	BY245489	BY245489	192	11	2.2	654	5	BU611275	UI-M-HB0-
120	18	3.6	479	2	BB862822	BB862822	193	11	2.2	707	5	BU364515	UI-M-FY0-
121	18	3.6	482	6	CB728076	CB728076	194	11	2.2	713	7	CK420161	603584810
122	18	3.6	494	5	BY254429	BY254429	195	11	2.2	728	5	BM429788	AUF Iptrk
123	18	3.6	499	1	AL597124	AL597124	c 196	11	2.2	729	7	CK420266	BM429788
124	18	3.6	573	9	CK533752	OST119370	197	11	2.2	790	5	BQ769444	BM429788
125	18	3.6	579	5	BP333962	BP333962	198	11	2.2	806	4	BI730182	AUF Iptrk
126	18	3.6	582	5	BP285070	BP285070	199	11	2.2	866	7	CK413667	603349726
127	18	3.6	629	4	BM664731	BM664731	200	11	2.2	866	7	CK413667	AUF Iptrk
128	18	3.6	661	4	BG400668	BG400668	201	11	2.2	866	7	CK413667	AUF Iptrk
129	18	3.6	676	2	BE867611	602464341	202	11	2.2	866	7	CK413667	AUF Iptrk
130	18	3.6	682	2	BE613552	601443127	203	11	2.2	866	7	CK413667	AUF Iptrk
131	18	3.6	736	5	BP223105	BP223105	204	11	2.2	866	7	CK413667	AUF Iptrk
132	18	3.6	904	2	BF124137	BF124137	205	11	2.2	909	9	CNS04M9J	603349726
133	18	3.6	965	4	BG290613	BG290613	c 206	11	2.2	951	5	BQ959761	603349726
134	18	3.6	1100	4	BG866603	BG866603	207	11	2.2	1024	9	CNS03MJZ	603349726
135	18	3.6	1165	5	BQ715048	AGENCOURT	208	11	2.2	1716	9	AY415645	603349726
136	17	3.4	425	7	CK688160	CK688160	209	11	2.2	1749	9	AY415644	603349726
137	16	3.2	303	6	CB700764	CB700764	210	11	2.2	1749	9	AY415644	603349726
138	16	3.2	343	6	CB693459	AMGNNUC:C	211	11	2.2	2720	3	AK043753	603349726
139	16	3.2	412	6	BY645660	BY645660	212	11	2.2	4078	3	AK045409	603349726
140	16	3.2	423	9	CG563532	CG563532	c 213	10	2.0	55	1	AA625063	603349726
141	16	3.2	449	6	CB742771	OST419032	214	10	2.0	343	6	CB602389	603349726
142	16	3.2	495	6	CB713294	AMGNNUC:C	215	10	2.0	358	7	CO266259	603349726
143	16	3.2	694	8	BZ922735	CH240.115	216	10	2.0	378	2	BF506667	603349726
144	15	3.0	485	4	BI041275	MR4-NT014	217	10	2.0	393	1	AU170831	603349726
145	15	3.0	575	4	BJ692156	BJ692156	218	10	2.0	403	7	CG286528	603349726
146	15	3.0	603	4	BJ703130	BJ703130	c 219	10	2.0	414	9	CG555748	603349726
147	15	3.0	752	2	BE876444	601486880	220	10	2.0	436	2	CO337940	603349726
148	14	2.8	344	5	BY021590	BY021590	221	10	2.0	446	2	BF502816	603349726
149	14	2.8	433	6	CB760265	AMGNNUC:C	222	10	2.0	464	2	BE722554	603349726
150	14	2.8	560	4	BJ032567	BJ032567	223	10	2.0	480	1	AA104847	603349726
151	14	2.8	587	4	BM179717	BM179717	224	10	2.0	485	5	BM565707	603349726
152	14	2.8	630	2	BB610013	BB610013	225	10	2.0	495	5	BM565707	603349726
153	14	2.8	632	4	BU031727	BU031727	226	10	2.0	525	2	BE722641	603349726
154	14	2.8	636	4	BU617191	BU617191	227	10	2.0	530	5	BM567171	603349726
155	14	2.8	647	4	BI445533	dae81h09.	228	10	2.0	541	1	AA106229	603349726

CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR427276	CR42727
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	---------



GenCore version 5.1.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 21:49:36 ; Search time 840.204 Seconds  
(without alignments)  
3698.824 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGEGSDRT.....LFAKGEVQNWAIASHDQGRHN 495

Scoring table:

OLIGO  
Xgapop 60.0, Xgapext 60.0  
Ygapop 60.0, Ygapext 60.0  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 6330943 seqs, 3139157217 residues

Word size: 1

Total number of hits satisfying chosen parameters: 12650797

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame+p2n.model -DEV=xlh  
-Q=/cgn2\_1/USPTO\_spool/US09776865/runat\_08072005\_175614\_23755/app\_query.fasta\_1.1358  
-DB=Published Applications NA -QFMT=fastap -SUFFIX=oligo.rnpb -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo  
-TRANS=human40.cdi -LIST=1000 -DOCLIGN=200 -THR SCORE=quality -THR\_MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFMT=PTC -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09776865 @CGN\_1\_1065 @runat\_08072005\_175614\_23755  
-NCPU=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
-LONGLOG -DRV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60  
-XGAPOP=6 -XGAPEXT=7 -XGAPOP=60 -XGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

Published Applications NA.\*  
1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*  
2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*  
11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq.\*  
18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US10G\_PUBCOMB.seq.\*  
20: /cgn2\_6/ptodata/2/pubpna/US10H\_PUBCOMB.seq.\*  
21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq.\*  
22: /cgn2\_6/ptodata/2/pubpna/US10J\_NEW\_PUB.seq.\*  
23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq.\*  
24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	495	100.0	2844	9	US-09-776-865-3	Sequence 3, Appli
2	495	100.0	2844	21	US-10-823-506-3	Sequence 9, Appli
3	61	12.3	1485	21	US-10-823-506-9	Sequence 322, App
4	61	12.3	1488	13	US-10-098-841-322	Sequence 946, App
5	61	12.3	1651	17	US-10-264-237-946	Sequence 302, App
6	61	12.3	1872	17	US-10-264-049-302	Sequence 461, App
7	61	12.3	1975	18	US-10-296-115-461	Sequence 461, App
8	61	12.3	1975	18	US-10-296-115-461	Sequence 1, Appli
9	61	12.3	2602	21	US-10-823-506-1	Sequence 12482, A
10	61	12.3	2626	14	US-10-198-846-12482	Sequence 1, Appli
11	61	12.3	2930	9	US-09-776-865-1	Sequence 7, Appli
12	61	12.3	2930	21	US-10-823-506-7	Sequence 587, App
13	61	12.3	3292	21	US-10-887-553A-858	Sequence 13097, A
14	61	12.3	3329	19	US-10-755-889-587	Sequence 660, App
15	61	12.3	3362	10	US-09-814-353-19037	Sequence 602, App
16	48	9.7	1229	18	US-10-641-643-660	Sequence 11, Appli
17	33	6.7	217	17	US-10-305-720-602	Sequence 1320, Ap
18	30	6.1	1485	21	US-10-823-506-11	Sequence 1320, Ap
19	29	5.9	196	9	US-09-878-178-1320	Sequence 14261, A
20	29	5.9	196	13	US-10-046-935-1320	Sequence 556, App
21	29	5.9	196	14	US-10-146-502-1320	Sequence 3453, App
22	29	5.9	494	10	US-09-814-353-12829	Sequence 1, Appli
23	29	5.9	498	10	US-09-814-353-46	Sequence 2, Appli
24	29	5.9	498	10	US-09-814-353-6444	Sequence 13, Appli
25	29	5.9	516	14	US-10-198-846-9093	Sequence 21, Appli
26	18	3.6	573	9	US-09-728-446-1228	Sequence 9, Appli
27	18	3.6	755	16	US-10-198-846-4797	Sequence 1016, Ap
28	12	2.4	376	14	US-10-029-386-14261	Sequence 8, Appli
29	12	2.4	512	16	US-10-029-386-556	Sequence 11, Appli
30	12	2.4	2281	17	US-09-880-107-3453	Sequence 12482, A
31	12	2.4	2281	17	US-10-159-563-337	Sequence 7, Appli
32	12	2.4	235033	15	US-10-301-844-1	Sequence 587, App
33	12	2.4	237326	15	US-10-301-844-2	Sequence 13097, A
34	11	2.2	2528	20	US-10-734-731-13	Sequence 660, App
35	11	2.2	2528	20	US-10-807-500-13	Sequence 602, App
36	11	2.2	3423	16	US-10-233-045-21	Sequence 11, Appli
37	11	2.2	3946	20	US-10-734-731-9	Sequence 1320, Ap
38	11	2.2	3946	20	US-10-807-500-9	Sequence 1320, Ap
39	11	2.2	3946	21	US-10-887-553A-1016	Sequence 14261, A
40	11	2.2	3982	18	US-10-205-331-8	Sequence 556, App
41	11	2.2	3982	20	US-10-734-731-11	Sequence 3453, App
42	11	2.2	3982	20	US-10-807-500-11	Sequence 1, Appli
43	10	2.0	684	18	US-10-424-599-54471	Sequence 2, Appli
44	10	2.0	875	17	US-10-369-493-29558	Sequence 13, Appli
45	10	2.0	1425	17	US-10-369-493-29560	Sequence 13, Appli
46	10	2.0	1700	17	US-10-388-934-516	Sequence 21, Appli
47	10	2.0	1700	18	US-10-152-319A-2122	Sequence 9, Appli
48	9	1.8	225	20	US-10-425-115-13690	Sequence 9, Appli
49	9	1.8	360	9	US-09-770-791-518	Sequence 1016, Ap
50	9	1.8	508	18	US-10-424-599-54138	Sequence 8, Appli
51	9	1.8	511	20	US-10-363-345A-33703	Sequence 11, Appli
52	9	1.8	511	20	US-10-363-345A-33704	Sequence 54471, A
53	9	1.8	511	21	US-10-363-483A-33703	Sequence 29558, A
54	9	1.8	511	21	US-10-363-483A-33704	Sequence 516, App
55	9	1.8	683	13	US-10-027-632-11420	Sequence 2122, Ap
56	9	1.8	683	17	US-10-027-632-11420	Sequence 13690, A
57	9	1.8	855	19	US-10-437-963-101872	Sequence 518, App
58	9	1.8	957	20	US-10-425-115-14823	Sequence 33703, A
59	9	1.8	1128	18	US-10-425-115-14823	Sequence 33704, A
60	9	1.8	1188	9	US-09-938-842A-951	Sequence 33703, A
61	9	1.8	1188	11	US-09-938-842A-951	Sequence 33704, A
62	9	1.8	1753	18	US-10-424-599-21988	Sequence 33703, A
63	9	1.8	1938	9	US-09-834-975-1039	Sequence 33704, A
64	9	1.8	1952	9	US-09-835-232-5	Sequence 11420, A
65	9	1.8	1952	16	US-10-308-485-5	Sequence 101872, A

C 66	9	1.8	1374	18	US-10-425-114-29922	Sequence 29922, A	C 139	8	1.6	633	21	US-10-363-483A-33830	Sequence 33830, A
C 67	9	1.8	6509	19	US-10-437-963-66978	Sequence 66978, A	C 140	8	1.6	635	18	US-10-424-599-60261	Sequence 60261, A
C 68	9	1.8	11069	19	US-10-437-963-86268	Sequence 86268, A	C 141	8	1.6	643	19	US-10-437-963-3087	Sequence 3087, Ap
C 69	9	1.8	14800	9	US-09-954-456-1601	Sequence 1601, Ap	C 142	8	1.6	644	19	US-10-437-963-47966	Sequence 47966, A
C 70	9	1.8	14800	16	US-10-269-909-61	Sequence 61, Appl	C 143	8	1.6	650	9	US-09-879-536-270	Sequence 270, App
C 71	9	1.8	14800	19	US-10-717-537-183	Sequence 183, App	C 144	8	1.6	652	13	US-10-027-632-281506	Sequence 281506, A
C 72	9	1.8	14800	21	US-10-843-641A-4628	Sequence 4628, Ap	C 145	8	1.6	652	13	US-10-027-632-281507	Sequence 281507, A
C 73	9	1.8	14800	21	US-10-956-157-418	Sequence 418, App	C 146	8	1.6	652	17	US-10-027-632-281506	Sequence 281506, A
C 74	9	1.8	14835	16	US-10-240-965-113	Sequence 113, App	C 147	8	1.6	652	17	US-10-027-632-281507	Sequence 281507, A
C 75	9	1.8	228139	13	US-10-087-192-232	Sequence 232, App	C 148	8	1.6	658	13	US-10-027-632-237869	Sequence 237869, A
C 76	9	1.8	247544	19	US-10-322-696-55	Sequence 55, Appl	C 149	8	1.6	668	13	US-10-027-632-237870	Sequence 237870, A
C 77	9	1.8	252307	20	US-10-417-375-66	Sequence 66, Appl	C 150	8	1.6	668	17	US-10-027-632-237869	Sequence 237869, A
C 78	8	1.6	25	22	US-10-843-527-28883	Sequence 28883, A	C 151	8	1.6	668	17	US-10-027-632-237870	Sequence 237870, A
C 79	8	1.6	25	22	US-10-843-527-29859	Sequence 29859, A	C 152	8	1.6	685	20	US-10-425-115-89512	Sequence 89512, A
C 80	8	1.6	25	22	US-10-843-527-206854	Sequence 206854, A	C 153	8	1.6	685	19	US-10-437-963-23740	Sequence 23740, A
C 81	8	1.6	25	22	US-10-843-527-207830	Sequence 207830, A	C 154	8	1.6	690	20	US-10-425-115-132596	Sequence 132596, A
C 82	8	1.6	117	9	US-09-884-441-359	Sequence 359, App	C 155	8	1.6	692	20	US-10-425-115-104692	Sequence 104692, A
C 83	8	1.6	117	10	US-09-907-969-359	Sequence 359, App	C 156	8	1.6	705	17	US-10-282-122A-20195	Sequence 20195, A
C 84	8	1.6	117	10	US-09-827-271-359	Sequence 359, App	C 157	8	1.6	706	20	US-10-363-345A-19561	Sequence 19561, A
C 85	8	1.6	117	15	US-10-198-053-359	Sequence 359, App	C 158	8	1.6	706	20	US-10-363-345A-19562	Sequence 19562, A
C 86	8	1.6	117	21	US-10-860-790-359	Sequence 359, App	C 159	8	1.6	706	21	US-10-363-483A-19561	Sequence 19561, A
C 87	8	1.6	155	19	US-10-437-963-66650	Sequence 66650, A	C 160	8	1.6	706	21	US-10-363-483A-19562	Sequence 19562, A
C 88	8	1.6	215	20	US-10-425-115-103673	Sequence 103673, A	C 161	8	1.6	714	16	US-10-029-386-20716	Sequence 20716, A
C 89	8	1.6	237	19	US-10-437-963-52434	Sequence 52434, A	C 162	8	1.6	736	21	US-10-956-157-3878	Sequence 3878, Ap
C 90	8	1.6	289	19	US-10-305-720-975	Sequence 24527, A	C 163	8	1.6	736	21	US-10-956-157-9113	Sequence 9113, Ap
C 91	8	1.6	302	17	US-10-305-720-975	Sequence 975, App	C 164	8	1.6	746	13	US-10-027-632-150370	Sequence 150370, A
C 92	8	1.6	307	9	US-09-777-564-175	Sequence 175, App	C 165	8	1.6	746	13	US-10-027-632-150370	Sequence 150370, A
C 93	8	1.6	307	14	US-10-015-219-175	Sequence 175, App	C 166	8	1.6	747	17	US-10-424-599-103353	Sequence 103353, A
C 94	8	1.6	321	19	US-10-767-795-4558	Sequence 4558, Ap	C 167	8	1.6	753	17	US-10-408-456-19	Sequence 19, Appl
C 95	8	1.6	328	17	US-10-242-535A-8114	Sequence 8114, Ap	C 168	8	1.6	783	13	US-10-027-632-149776	Sequence 149776, A
C 96	8	1.6	328	18	US-10-085-783A-8114	Sequence 8114, Ap	C 169	8	1.6	783	17	US-10-027-632-149776	Sequence 149776, A
C 97	8	1.6	336	9	US-09-960-352-10377	Sequence 10377, A	C 170	8	1.6	810	19	US-10-437-963-27521	Sequence 27521, A
C 98	8	1.6	353	19	US-10-767-701-29340	Sequence 29340, A	C 171	8	1.6	828	20	US-10-363-345A-18203	Sequence 18203, A
C 99	8	1.6	355	21	US-10-826-967A-57	Sequence 57, Appl	C 172	8	1.6	828	20	US-10-363-345A-18204	Sequence 18204, A
C 100	8	1.6	359	18	US-10-424-599-132069	Sequence 132069, A	C 173	8	1.6	828	21	US-10-363-483A-18203	Sequence 18203, A
C 101	8	1.6	363	20	US-10-425-115-181934	Sequence 181934, A	C 174	8	1.6	828	21	US-10-363-483A-18204	Sequence 18204, A
C 102	8	1.6	364	9	US-09-783-590-6544	Sequence 6544, Ap	C 175	8	1.6	831	19	US-10-437-963-35710	Sequence 35710, A
C 103	8	1.6	386	9	US-09-998-598-2170	Sequence 2170, Ap	C 176	8	1.6	846	19	US-10-437-963-53592	Sequence 53592, A
C 104	8	1.6	387	9	US-09-998-598-2228	Sequence 2228, Ap	C 177	8	1.6	852	19	US-10-437-963-53233	Sequence 53233, A
C 105	8	1.6	390	9	US-09-920-300A-564	Sequence 564, App	C 178	8	1.6	867	19	US-10-437-963-12083	Sequence 12083, A
C 106	8	1.6	390	13	US-10-033-528-564	Sequence 564, App	C 179	8	1.6	874	20	US-10-363-345A-20585	Sequence 20585, A
C 107	8	1.6	390	16	US-10-039-526-564	Sequence 564, App	C 180	8	1.6	874	20	US-10-363-345A-20585	Sequence 20585, A
C 108	8	1.6	423	13	US-10-027-632-16565	Sequence 16565, A	C 181	8	1.6	874	20	US-10-363-345A-20586	Sequence 20586, A
C 109	8	1.6	423	17	US-10-027-632-16565	Sequence 16565, A	C 182	8	1.6	874	20	US-10-363-345A-20586	Sequence 20586, A
C 110	8	1.6	429	9	US-09-960-352-2218	Sequence 2218, Ap	C 183	8	1.6	874	21	US-10-363-483A-20585	Sequence 20585, A
C 111	8	1.6	429	10	US-09-918-995-6944	Sequence 6944, Ap	C 184	8	1.6	874	21	US-10-363-483A-20585	Sequence 20585, A
C 112	8	1.6	438	9	US-09-960-352-9784	Sequence 9784, Ap	C 185	8	1.6	874	21	US-10-363-483A-20586	Sequence 20586, A
C 113	8	1.6	438	18	US-10-424-599-49335	Sequence 49335, A	C 186	8	1.6	874	21	US-10-363-483A-20586	Sequence 20586, A
C 114	8	1.6	487	9	US-09-917-800A-246	Sequence 246, App	C 187	8	1.6	876	9	US-09-925-297-285	Sequence 285, App
C 115	8	1.6	487	18	US-10-152-319A-260	Sequence 260, App	C 188	8	1.6	886	20	US-10-363-345A-27629	Sequence 27629, A
C 116	8	1.6	511	9	US-09-880-107-1439	Sequence 1439, Ap	C 189	8	1.6	886	20	US-10-363-345A-27630	Sequence 27630, A
C 117	8	1.6	536	22	US-10-499-731-97	Sequence 97, Appl	C 190	8	1.6	886	21	US-10-363-483A-27629	Sequence 27629, A
C 118	8	1.6	545	9	US-09-864-761-8717	Sequence 8717, Ap	C 191	8	1.6	886	21	US-10-363-483A-27630	Sequence 27630, A
C 119	8	1.6	562	22	US-10-857-294-291	Sequence 291, App	C 192	8	1.6	887	9	US-09-730-212C-6	Sequence 6, Appli
C 120	8	1.6	585	20	US-10-363-345A-3483	Sequence 3483, Ap	C 193	8	1.6	887	19	US-10-755-807-6	Sequence 6, Appli
C 121	8	1.6	585	20	US-10-363-345A-3484	Sequence 3484, Ap	C 194	8	1.6	887	19	US-10-755-807-6	Sequence 6, Appli
C 122	8	1.6	585	21	US-10-363-483A-3483	Sequence 3483, Ap	C 195	8	1.6	894	18	US-10-425-114-17850	Sequence 17850, A
C 123	8	1.6	585	21	US-10-363-483A-3484	Sequence 3484, Ap	C 196	8	1.6	894	18	US-10-425-114-17850	Sequence 17850, A
C 124	8	1.6	587	9	US-09-864-761-13594	Sequence 13594, A	C 197	8	1.6	906	17	US-10-027-632-101120	Sequence 101120, A
C 125	8	1.6	594	20	US-10-363-345A-25859	Sequence 25859, A	C 198	8	1.6	911	13	US-10-027-632-120893	Sequence 120893, A
C 126	8	1.6	594	20	US-10-363-345A-25860	Sequence 25860, A	C 199	8	1.6	911	13	US-10-027-632-120893	Sequence 120893, A
C 127	8	1.6	594	21	US-10-363-483A-25859	Sequence 25859, A	C 200	8	1.6	951	17	US-10-369-493-42428	Sequence 42428, A
C 128	8	1.6	594	21	US-10-363-483A-25860	Sequence 25860, A	C 201	8	1.6	960	20	US-10-425-115-103551	Sequence 103551, A
C 129	8	1.6	600	21	US-10-956-157-6741	Sequence 6741, Ap	C 202	8	1.6	990	20	US-10-425-115-86656	Sequence 86656, A
C 130	8	1.6	600	21	US-10-956-157-9332	Sequence 9332, Ap	C 203	8	1.6	1057	17	US-10-260-238-3222	Sequence 3222, Ap
C 131	8	1.6	612	18	US-10-425-114-19884	Sequence 19884, A	C 204	8	1.6	1066	18	US-10-425-114-7719	Sequence 7719, Ap
C 132	8	1.6	632	13	US-10-027-632-218079	Sequence 218079, A	C 205	8	1.6	1080	17	US-10-282-122A-8837	Sequence 8837, Ap
C 133	8	1.6	632	13	US-10-027-632-218080	Sequence 218080, A	C 206	8	1.6	1098	17	US-10-369-493-25448	Sequence 25448, A
C 134	8	1.6	632	17	US-10-027-632-218079	Sequence 218079, A	C 207	8	1.6	1101	20	US-10-425-115-151323	Sequence 151323, A
C 135	8	1.6	632	17	US-10-027-632-218080	Sequence 218080, A	C 208	8	1.6	1103	18	US-10-412-699B-1361	Sequence 1261, Ap
C 136	8	1.6	633	20	US-10-363-345A-33829	Sequence 33829, A	C 209	8	1.6	1116	20	US-10-425-115-142051	Sequence 142051, A
C 137	8	1.6	633	20	US-10-363-345A-33830	Sequence 33830, A	C 210	8	1.6	1126	17	US-10-027-632-118334	Sequence 118334, A
C 138	8	1.6	633	21	US-10-363-483A-33829	Sequence 33829, A	C 211	8	1.6	1126	17	US-10-027-632-118334	Sequence 118334, A

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 17:15:15 ; Search time 234.297 Seconds

(without alignments)  
3456.970 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGEGSDRT.....LFAKGEVQWNAISDHQGRHN 495

Scoring table: OLIGO

Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1202784 seqs, 818138359 residues

Word size: 1

Total number of hits satisfying chosen parameters: 2400006

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters: -MODEL=frame+ p2n.model -DEV=xlh  
-Q=/cgn2\_1/USPTO.spool/US09776865/runat 08072005 175613 23708/app query.fasta\_1.1358  
-DB=Issued Patents NA -QFMT=fastap -SUFFIX=oligo.rni -MINMATCH=0.1 -LOOPL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -WATRIK=oligo -TRANS=human40.cdi  
-LIST=1000 -DOCLIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865@cgn\_1\_1\_277@runat 08072005 175613 23708 -NCFU=6 -ICPU=3  
-NO MMAP -LARGESQUERY -NEG SCORE=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Issued Patents NA:  
1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq:  
2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq:  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq:  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:  
5: /cgn2\_6/ptodata/1/ina/PCTUS.COMB.seq:  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	495	100.0	2844	4	US-09-359-167-3
2	61	12.3	1485	4	US-09-359-167-9
3	61	12.3	2513	4	US-09-949-016-1834
4	61	12.3	2602	4	US-09-359-167-1
5	61	12.3	2930	4	US-09-359-167-7
6	48	9.7	1229	4	US-09-023-655-660
7	43	8.7	63783	4	US-09-949-016-13576
8	33	6.7	217	4	US-09-016-434-602
9	30	6.1	1485	4	US-09-359-167-11
10	26	5.3	601	4	US-09-949-016-63313
11	26	5.3	601	4	US-09-949-016-63314
12	16	3.2	601	4	US-09-949-016-63336

13	12	2.4	2266	2	US-08-724-394A-18	Sequence 18, Appl
14	12	2.4	2270	4	US-09-949-016-5577	Sequence 5577, Ap
15	12	2.4	21862	4	US-09-949-016-17319	Sequence 17319, A
16	12	2.4	246240	2	US-08-724-394A-20	Sequence 20, Appl
17	12	2.4	246240	2	US-08-724-394A-21	Sequence 21, Appl
18	12	2.4	246240	2	US-08-724-394A-22	Sequence 22, Appl
19	10	2.0	601	4	US-09-949-016-63335	Sequence 63335, A
20	9	1.8	1374	4	US-09-902-540-6766	Sequence 6766, Ap
21	9	1.8	3344	4	US-09-902-540-552	Sequence 552, App
22	9	1.8	212139	4	US-09-949-016-16065	Sequence 16065, A
23	9	1.8	818128	4	US-09-949-016-14546	Sequence 14546, A
24	9	1.8	818128	4	US-09-949-016-14547	Sequence 14547, A
25	9	1.8	818128	4	US-09-949-016-14548	Sequence 14548, A
26	9	1.8	818128	4	US-09-949-016-14549	Sequence 14549, A
27	9	1.8	818128	4	US-09-949-016-14550	Sequence 14550, A
28	9	1.8	818128	4	US-09-949-016-14551	Sequence 14551, A
29	9	1.8	818128	4	US-09-949-016-14552	Sequence 14552, A
30	9	1.8	818128	4	US-09-949-016-14553	Sequence 14553, A
31	9	1.8	818128	4	US-09-949-016-14554	Sequence 14554, A
32	9	1.8	818128	4	US-09-949-016-14555	Sequence 14555, A
33	9	1.8	818128	4	US-09-949-016-14556	Sequence 14556, A
34	9	1.8	818128	4	US-09-949-016-14557	Sequence 14557, A
35	9	1.8	818128	4	US-09-949-016-14558	Sequence 14558, A
36	9	1.8	818128	4	US-09-949-016-14559	Sequence 14559, A
37	9	1.8	818128	4	US-09-949-016-14560	Sequence 14560, A
38	9	1.8	818128	4	US-09-949-016-14561	Sequence 14561, A
39	9	1.8	818128	4	US-09-949-016-14562	Sequence 14562, A
40	9	1.8	818128	4	US-09-949-016-14564	Sequence 14564, A
41	9	1.8	818128	4	US-09-949-016-14565	Sequence 14565, A
42	9	1.8	818128	4	US-09-949-016-14566	Sequence 14566, A
43	9	1.8	818128	4	US-09-949-016-14567	Sequence 14567, A
44	8	1.6	56	4	US-09-621-976-8337	Sequence 8337, Ap
45	8	1.6	56	4	US-09-621-976-9216	Sequence 9216, Ap
46	8	1.6	117	3	US-09-404-879A-359	Sequence 359, App
47	8	1.6	117	4	US-09-667-857-359	Sequence 359, App
48	8	1.6	185	4	US-09-270-767-28795	Sequence 28795, A
49	8	1.6	185	4	US-09-270-767-29422	Sequence 29422, A
50	8	1.6	185	4	US-09-270-767-30414	Sequence 30414, A
51	8	1.6	207	4	US-09-270-767-30137	Sequence 30137, A
52	8	1.6	280	4	US-09-270-767-29824	Sequence 29824, A
53	8	1.6	302	4	US-09-016-434-975	Sequence 975, App
54	8	1.6	368	4	US-09-513-999C-11176	Sequence 11176, A
55	8	1.6	425	4	US-09-513-999C-11178	Sequence 11178, A
56	8	1.6	456	4	US-09-270-767-4340	Sequence 4340, Ap
57	8	1.6	456	4	US-09-270-767-19622	Sequence 19622, A
58	8	1.6	456	4	US-09-513-999C-11179	Sequence 11179, A
59	8	1.6	513	4	US-09-513-999C-11181	Sequence 11181, A
60	8	1.6	516	4	US-09-902-540-8502	Sequence 8502, Ap
61	8	1.6	524	4	US-09-270-767-1440	Sequence 1440, Ap
62	8	1.6	524	4	US-09-270-767-16722	Sequence 16722, A
63	8	1.6	553	4	US-09-513-999C-11174	Sequence 11174, A
64	8	1.6	564	4	US-09-270-767-14049	Sequence 14049, A
65	8	1.6	579	4	US-09-270-767-13786	Sequence 13786, A
66	8	1.6	601	4	US-09-949-016-32335	Sequence 32335, A
67	8	1.6	601	4	US-09-949-016-32336	Sequence 32336, A
68	8	1.6	601	4	US-09-949-016-40335	Sequence 40335, A
69	8	1.6	601	4	US-09-949-016-41432	Sequence 41432, A
70	8	1.6	601	4	US-09-949-016-41433	Sequence 41433, A
71	8	1.6	601	4	US-09-949-016-41437	Sequence 41437, A
72	8	1.6	601	4	US-09-949-016-55349	Sequence 55349, A
73	8	1.6	601	4	US-09-949-016-55350	Sequence 55350, A
74	8	1.6	601	4	US-09-949-016-55557	Sequence 55557, A
75	8	1.6	601	4	US-09-949-016-55558	Sequence 55558, A
76	8	1.6	601	4	US-09-949-016-92662	Sequence 92662, A
77	8	1.6	601	4	US-09-949-016-155122	Sequence 155122, A
78	8	1.6	601	4	US-09-949-016-196871	Sequence 196871, A
79	8	1.6	601	4	US-09-513-999C-11172	Sequence 11172, A
80	8	1.6	636	4	US-09-328-111-270	Sequence 270, App
81	8	1.6	650	3	US-09-513-999C-11175	Sequence 11175, A
82	8	1.6	689	4	US-09-252-991A-11849	Sequence 11849, A
83	8	1.6	705	4	US-09-328-352-2064	Sequence 2064, Ap
84	8	1.6	801	4	US-09-730-212C-6	Sequence 6, Appl
85	8	1.6	887	4		

86	8	1.6	1062	4	US-09-710-279-633	Sequence 633, App	159	8	1.6	137753	4	US-09-949-016-17404	Sequence 17404, A
c 87	8	1.6	1083	4	US-09-252-991A-11533	Sequence 11533, App	c 160	8	1.6	151256	4	US-09-949-016-12674	Sequence 12674, A
88	8	1.6	1104	4	US-09-328-352-2000	Sequence 2000, A	c 161	8	1.6	151261	4	US-09-949-016-13242	Sequence 13242, A
89	8	1.6	1206	4	US-09-328-352-2836	Sequence 2836, App	c 162	8	1.6	166698	4	US-09-949-016-16038	Sequence 16038, A
c 90	8	1.6	1263	4	US-09-252-991A-13467	Sequence 13467, App	c 163	8	1.6	177251	4	US-09-949-016-15841	Sequence 15841, A
c 91	8	1.6	1263	4	US-09-252-991A-13658	Sequence 13658, A	c 164	8	1.6	177251	4	US-09-949-016-12706	Sequence 12706, A
c 92	8	1.6	1335	4	US-09-270-767-13448	Sequence 13448, A	c 165	8	1.6	177510	4	US-09-949-016-16070	Sequence 16070, A
c 93	8	1.6	1353	4	US-09-902-540-4241	Sequence 4241, App	c 166	8	1.6	177510	4	US-09-949-016-15868	Sequence 15868, A
94	8	1.6	1377	4	US-09-252-991A-13676	Sequence 13676, A	c 167	8	1.6	1664976	4	US-08-916-4218-1	Sequence 1, Appli
95	8	1.6	1384	1	US-07-607-538C-1	Sequence 1, Appli	c 168	8	1.6	1664976	4	US-09-692-570-1	Sequence 1, Appli
96	8	1.6	1384	2	US-08-162-402B-1	Sequence 1, Appli	c 169	7	1.4	33	1	US-08-350-850-8	Sequence 8, Appli
97	8	1.6	1384	4	US-09-364-185-1	Sequence 1, Appli	c 170	7	1.4	33	1	US-08-435-634-8	Sequence 8, Appli
c 98	8	1.6	1419	4	US-09-902-540-5186	Sequence 5186, App	c 171	7	1.4	35	3	US-09-621-625A-10	Sequence 10, Appli
c 99	8	1.6	1536	4	US-09-252-991A-11652	Sequence 11652, A	c 172	7	1.4	36	3	US-08-235-836C-27	Sequence 27, Appli
100	8	1.6	1761	4	US-09-252-991A-11704	Sequence 11704, A	c 173	7	1.4	67	3	US-09-242-690A-56	Sequence 56, Appli
101	8	1.6	1811	4	US-09-740-041-1	Sequence 1, Appli	c 174	7	1.4	67	3	US-09-908-855-56	Sequence 56, Appli
102	8	1.6	1934	2	US-08-162-402B-7	Sequence 7, Appli	c 175	7	1.4	67	4	US-09-513-999C-13889	Sequence 13889, A
103	8	1.6	2052	3	US-09-134-001C-2739	Sequence 2739, App	c 176	7	1.4	130	4	US-09-313-294A-6414	Sequence 6414, App
104	8	1.6	2178	4	US-09-270-767-14275	Sequence 14275, A	c 177	7	1.4	137	4	US-09-270-767-29675	Sequence 29675, A
105	8	1.6	2296	4	US-09-949-016-1182	Sequence 1182, App	c 178	7	1.4	148	4	US-09-513-999C-33405	Sequence 33405, A
c 106	8	1.6	2301	4	US-09-774-528-110	Sequence 110, App	c 179	7	1.4	153	4	US-09-513-999C-33418	Sequence 33418, A
c 107	8	1.6	2366	4	US-09-949-016-5483	Sequence 5483, App	c 180	7	1.4	167	4	US-09-107-532A-2212	Sequence 2212, App
108	8	1.6	2607	4	US-09-915-181A-1	Sequence 1, Appli	c 181	7	1.4	189	4	US-09-107-532A-2866	Sequence 2866, App
109	8	1.6	2626	4	US-09-949-016-745	Sequence 745, App	c 182	7	1.4	195	1	US-08-470-202-37	Sequence 37, Appli
c 110	8	1.6	2703	4	US-09-248-796A-4178	Sequence 4178, App	c 183	7	1.4	195	1	US-08-471-770-37	Sequence 37, Appli
111	8	1.6	2716	1	US-08-647-484-3	Sequence 1, Appli	c 184	7	1.4	195	2	US-08-468-059-37	Sequence 37, Appli
112	8	1.6	2716	1	US-08-647-484-3	Sequence 1, Appli	c 185	7	1.4	195	2	US-09-109-916-37	Sequence 37, Appli
113	8	1.6	2716	1	US-08-647-481-1	Sequence 1, Appli	c 186	7	1.4	195	3	US-09-109-916-37	Sequence 37, Appli
114	8	1.6	2716	1	US-08-647-481-3	Sequence 1, Appli	c 187	7	1.4	195	3	US-09-886-156-37	Sequence 37, Appli
115	8	1.6	2716	1	US-08-430-033A-1	Sequence 1, Appli	c 188	7	1.4	195	4	US-09-886-156-38	Sequence 38, Appli
116	8	1.6	2716	1	US-08-430-033A-3	Sequence 1, Appli	c 189	7	1.4	195	4	US-09-886-149-37	Sequence 37, Appli
117	8	1.6	2716	5	PCT-US96-05792-1	Sequence 1, Appli	c 190	7	1.4	195	4	US-09-886-149-38	Sequence 38, Appli
118	8	1.6	2716	5	PCT-US96-05792-3	Sequence 3, Appli	c 191	7	1.4	195	4	US-09-886-150-37	Sequence 37, Appli
c 119	8	1.6	2795	4	US-09-949-016-2651	Sequence 2651, App	c 192	7	1.4	195	4	US-09-886-150-38	Sequence 38, Appli
c 120	8	1.6	2795	4	US-09-949-016-1135	Sequence 1135, App	c 193	7	1.4	195	4	US-09-886-159-37	Sequence 37, Appli
c 121	8	1.6	2831	2	US-08-906-713-1	Sequence 1, Appli	c 194	7	1.4	195	4	US-09-886-159-38	Sequence 38, Appli
c 122	8	1.6	3051	4	US-09-270-767-12928	Sequence 12928, A	c 195	7	1.4	195	4	US-10-326-090-37	Sequence 37, Appli
c 123	8	1.6	3211	4	US-09-710-279-4211	Sequence 4211, App	c 196	7	1.4	195	4	US-10-326-090-38	Sequence 38, Appli
c 124	8	1.6	3254	4	US-09-710-279-4202	Sequence 4202, App	c 197	7	1.4	208	4	US-09-621-976-8884	Sequence 8884, App
c 125	8	1.6	3293	4	US-09-792-024-62	Sequence 62, Appli	c 198	7	1.4	214	3	US-09-242-690A-10	Sequence 10, Appli
c 126	8	1.6	3563	4	US-09-710-279-3372	Sequence 3372, App	c 199	7	1.4	214	3	US-09-908-855-10	Sequence 10, Appli
c 127	8	1.6	3563	4	US-09-710-279-3372	Sequence 3372, App	c 200	7	1.4	216	3	US-09-439-313-406	Sequence 406, App
c 128	8	1.6	3648	4	US-09-902-540-895	Sequence 895, App	c 201	7	1.4	216	3	US-09-352-616A-406	Sequence 406, App
c 129	8	1.6	8205	4	US-09-949-016-1500	Sequence 1500, App	c 202	7	1.4	216	4	US-09-636-215-406	Sequence 406, App
c 130	8	1.6	8220	4	US-09-949-016-932	Sequence 932, App	c 203	7	1.4	216	4	US-09-685-166A-406	Sequence 406, App
c 131	8	1.6	9377	4	US-09-801-874-3	Sequence 3, Appli	c 204	7	1.4	216	4	US-09-679-426-406	Sequence 406, App
c 132	8	1.6	11854	4	US-09-902-540-1037	Sequence 1037, App	c 205	7	1.4	216	4	US-09-759-143-406	Sequence 406, App
c 133	8	1.6	12787	4	US-09-949-016-16359	Sequence 16359, A	c 206	7	1.4	216	4	US-09-651-236-406	Sequence 406, App
c 134	8	1.6	12797	4	US-09-949-016-13123	Sequence 13123, A	c 207	7	1.4	221	4	US-09-313-294A-278	Sequence 278, App
c 135	8	1.6	15543	4	US-09-949-016-17225	Sequence 17225, A	c 208	7	1.4	228	4	US-09-313-294A-2469	Sequence 2469, App
c 136	8	1.6	18000	4	US-09-657-346A-17	Sequence 17, Appli	c 209	7	1.4	240	4	US-09-489-039A-216	Sequence 216, App
c 137	8	1.6	19161	4	US-09-949-016-15731	Sequence 15731, A	c 210	7	1.4	246	4	US-09-313-294A-2412	Sequence 2412, App
c 138	8	1.6	20444	4	US-09-949-016-15750	Sequence 15750, A	c 211	7	1.4	253	4	US-09-549-848B-20	Sequence 20, Appli
c 139	8	1.6	20966	4	US-09-776-976-7	Sequence 7, Appli	c 212	7	1.4	255	4	US-09-513-999C-10299	Sequence 10299, A
c 140	8	1.6	20966	4	US-09-908-857-1	Sequence 1, Appli	c 213	7	1.4	256	4	US-09-313-294A-585	Sequence 585, App
c 141	8	1.6	20966	4	US-09-568-852B-1	Sequence 1, Appli	c 214	7	1.4	266	4	US-09-050-516-24	Sequence 24, Appli
c 142	8	1.6	22301	4	US-09-949-016-12924	Sequence 12924, A	c 215	7	1.4	266	4	US-10-278-547-24	Sequence 24, Appli
c 143	8	1.6	24791	4	US-09-902-540-1211	Sequence 1211, App	c 216	7	1.4	271	4	US-09-513-999C-3662	Sequence 3662, App
c 144	8	1.6	27380	4	US-09-949-016-12877	Sequence 12877, A	c 217	7	1.4	276	4	US-09-543-681A-3946	Sequence 3946, App
c 145	8	1.6	27383	4	US-09-949-016-14393	Sequence 14393, A	c 218	7	1.4	282	4	US-09-248-796A-8739	Sequence 8739, App
c 146	8	1.6	28257	4	US-09-949-016-13076	Sequence 13076, A	c 219	7	1.4	290	4	US-09-313-294A-4693	Sequence 4693, App
c 147	8	1.6	29465	4	US-09-949-016-12487	Sequence 12487, A	c 220	7	1.4	291	4	US-09-313-294A-5500	Sequence 5500, App
c 148	8	1.6	32573	4	US-09-949-016-13359	Sequence 13359, A	c 221	7	1.4	291	4	US-09-252-991A-42	Sequence 42, Appli
c 149	8	1.6	33885	4	US-09-949-016-15081	Sequence 15081, A	c 222	7	1.4	292	4	US-09-313-294A-6401	Sequence 6401, App
c 150	8	1.6	43255	4	US-09-949-016-11909	Sequence 11909, A	c 223	7	1.4	293	4	US-09-313-294A-6844	Sequence 6844, App
c 151	8	1.6	47799	4	US-09-949-016-13363	Sequence 13363, A	c 224	7	1.4	297	4	US-09-248-796A-10106	Sequence 10106, A
c 152	8	1.6	6804	4	US-09-740-041-3	Sequence 3, Appli	c 225	7	1.4	309	4	US-09-710-279-2591	Sequence 2591, App
c 153	8	1.6	81819	4	US-09-949-016-16661	Sequence 16661, A	c 226	7	1.4	315	4	US-09-583-110-442	Sequence 442, App
c 154	8	1.6	86414	4	US-09-949-016-16662	Sequence 16662, A	c 227	7	1.4	318	4	US-09-513-999C-20883	Sequence 20883, A
c 155	8	1.6	86414	4	US-09-949-016-12345	Sequence 12345, A	c 228	7	1.4	324	4	US-09-050-516-23	Sequence 23, Appli
c 156	8	1.6	86414	4	US-09-949-016-15758	Sequence 15758, A	c 229	7	1.4	324	4	US-10-278-547-23	Sequence 23, Appli
c 157	8	1.6	102008	4	US-09-949-016-16617	Sequence 16617, A	c 230	7	1.4	333	4	US-09-248-796A-217	Sequence 217, App
c 158	8	1.6	116966	4	US-09-949-016-17557	Sequence 17557, A	c 231	7	1.4	333	4	US-09-248-796A-415	Sequence 415, App